



GOA UNIVERSITY



ANNUAL REPORT

1990-91

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PREFACE

I have the pleasure of presenting the Sixth Annual Report of Goa University for the academic year 1990-91. The report covers the period from June, 1990 to May, 1991.

The presentation of the report has been done in four chapters including Introduction in chapter I. Chapter II deals with the University teaching departments for the Post-graduate courses. Owing the year under report two more departments, viz, Botany and Zoology were made functional with an intake capacity of 10 students each, thereby raising the number of the Post-graduate Teaching Departments to 23. In addition, the Centres for Latin American Studies and Women's Studies continued to function during the year under report along with the Academic Staff College.

Chapter III deals with colleges, both professional and other than professional, affiliated to the University and recognised institutions. One more college for imparting instructions in commerce has been affiliated to the University thereby raising the total number of affiliated colleges to 27.

Chapter IV deals with other activities relating to Library, Students' Welfare & Cultural Affairs, Sports, Konkani Encyclopaedia and National Service Scheme. In the field of library services, bibliographies of reading materials available in the University library on special subjects were compiled along with a list of the latest additions and an exhaustive list of the periodicals. In order to enable the students to fulfill their commitment to the community, the University adopted a neighbouring village, viz. Kakra for its socio-economic development, besides organising seminars in the life-related areas such as dowry system, tobacco hazards, etc. and participation in the All India Inter-University Football, Basketball, Volley-ball, Badminton competition for men as well as women being adjudged the winners in football (men) and runners up in football (Women). The National Service Scheme was activated by undertaking hospital projects and blood donations, each-one-teach-one, remedial coaching to weaker sections of the society, literacy surveys, survey in orphanages, industrial surveys, participation in inter-Universities national integration camp.

During the year under report the University has progressed satisfactorily, in spite of some difficulties. In our efforts to make this University a centre of knowledge and also to explore new frontiers of knowledge; we have been strengthening considerably the infrastructure for developing the existing departments/centres and planning for new hi-tech areas for providing opportunities for learning and research for younger generations. The year 1990-91 saw many important developments such as restructuring of the under-graduate courses, constitution of academic committees for bringing about academic excellence, programmes for improvement of the evaluation system and upgradation of the research facilities besides educational seminars and conferences in various fields. We brought out our own publications and organised endowment lectures by inviting outstanding personalities of Indian and abroad.

Various programmes were organised to keep the students informed about the latest developments in the academic and social fields through Extra Mural Studies, N.S.S., Sports, Students' Welfare and such other centres of learning. We have also introduced periodical review of academic and administrative wings.

In pursuance of the decision taken by the Court of the University in the last meeting Prin. M. S. Kamat assisted by Dr. Tanaji Halarnkar was entrusted with the task of editing this Annual Report. I thank both of them for their efforts in this direction.

I place on record my deepest sense of gratitude to the Visitor for his valuable guidance, to the Government of Goa for its munificent grants, to the University Grants Commission and the Central Ministries concerned for the help and assistance in respect of funds extended to this University, to the members of the Executive Council, the Academic Council, the Court, the Planning Board and to the several Boards of Studies for their sincere support and full cooperation at every stage in implementations of the various academic, administrative and other activities undertaken by the University.

I am highly grateful to our faculty for its dedicated efforts to raise the level of standards in our University. Similarly, I appreciate the positive response in all sectors of learning we have had from our students community, for whose future, we all labour. I am also thankful to each and every members of the administrative staff for his/her unstinted support in our constant endeavour to improve the functioning of the University.

University Offices,
Taleigao Plateau,
February, 1992.

DR. P. R. DUBHASHI
VICE-CHANCELLOR.

CHAPTER I

INTRODUCTION

The Vice-Chancellor, on behalf of the Executive Council, has great pleasure in presenting to the Court the Annual Report of the University for the year 1990-91 as required under section 26 of the Goa University Act, 1984.

I General

Established on 1st June, 1985 as a teaching institution for higher education, the Goa University has completed the sixth year of its existence. This University had inherited from Bombay University a solid base of education structure which had *been* built brick by brick over twenty years, since the days of Goa's liberation, pertaining to every faculty, whether Arts, Science, Commerce, Law, Education, Engineering or Medicine. Due emphasis had been given to technical and professional education, with the result that this State could boast of having a Dental College, a Pharmacy College, an Engineering College, a Medical College, a College of Fine Art, a college of Education, two Law Colleges, four colleges exclusively for Commerce, five colleges of Arts & Science and one college exclusively for Women. Upon this solid structure of under-graduate courses was based the Centre of Post-graduate instruction and Research (CPIR) with quite a few Departments relevant to the needs of the society. The CPIR, which had arrangements for post-graduate teaching and instruction in 13 subjects, formed the nucleus for the Goa University.

The University has by now been fully established. It conducted its first public examinations in 1988-89 for the students who were admitted to the first year during the year 1986-87. The term of the first University authorities appointed by the Visitor in exercise of powers vested in him under the Goa University Act, 1984 expired between June and August 1988 and all the authorities have since been reconstituted in accordance with the provision of the Act and Statutes. So we have now the reconstituted Executive Council, Academic Council, Court, Planning Board Finance Committee, etc.

The Goa University was very fortunate to have a personality of the stature of Dr. Gopal Singh as its first Visitor. Unfortunately with his sad demise on 8th August, 1990 the University has lost not only his valuable guidance in its academic matters but also a personality of outstanding calibre.

II. Faculties and Academic Programmes:

- a) Till 1988-89 the following departments were functioning in the University: Hindi, Konkani, Marathi, English, French, Portuguese, Economics, History, Political Science, Sociology, Philosophy, Mathematics, Physics, Chemistry, Microbiology, Marine Science, Geology, Commerce, Computer Science & Technology, Marine Biotechnology & Management Studies.
- b) This University is one of *the* 55 Universities in the country selected by the University Grants Commission for the setting up of an Academic Staff College which started functioning early in 1988-89. The jurisdiction of this Staff College extends not only to the area of this University, but also to that of the Shivaji University and four districts under the University of Bombay.
- c) A Centre for Latin American Studies sanctioned by the University Grants Commission, has also started functioning. To begin with, courses in History and Political Science of the Latin American countries have been offered at the **M.A.** level. Similarly, a Centre for Women's Studies, sanctioned by the University Grants Commission has also started functioning in the Department of Sociology.

- d) One new college was started in the year 1990-91. This is at Navelim, Goa. Set up by the Diocesan Society of Goa, this college caters to the need of undergraduate education in Commerce.
- e) The University plans to set up in near future a Department of Ecology and Environment Sciences, Recently, the University Grants Commission has called upon this University to put up a proposal for starting a course of study leading to the degree of M.Sc., in Electronics. The University Grants Commission has shown willingness to provide financial assistance, if the University agrees to start such a course. This matter is being examined in detail.
- f) An important development in the academic field is the restructuring of the courses leading to the post-graduate degrees in Arts, Science and Commerce. A Committee is also working for similar restructuring of the under-graduate courses in Arts, Science and Commerce and the restructured courses are likely to be implemented from the academic year 1992-93.

III. Construction Programme

The construction activity of the University's new campus on the Bambolim-Taleigao Plateau is going on in full swing. The basic infrastructural facilities like roads, electricity, water supply, sewerage etc. are either completed or nearing completion. The administrative offices faculty block and a large number of residential houses have been completed. The administration has shifted to its new Block on the campus in January 1990 and started functioning there. Most of the residential quarters are already occupied. The Blocks for the pure Sciences and Applied Sciences faculties are ready and already occupied by the faculties concerned. The Block for the Faculty of Art, Humanities & Social Sciences is nearing completion. Work on construction of a play-ground alongwith a 400 metres running track is also on expeditiously.

IV. Financial position

- a) The estimated expenditure for the year under review i.e. 1990-91 worked out on the plan side to Rs. 435.00 lakhs and on the non plan side Rs. 218.56 lakhs. These amounts are to be met almost entirely from the grants provided by the Government of Goa, with the exception of a small amount to be raised by way of fees and other miscellaneous receipts. The actual expenditure incurred during the year amounted to Rs. 338.12 lakhs on the plan side and Rs. 182.18 lakhs on the non-plan side.
- b) The University Grants Commission has sanctioned the following grants for the purpose as shown below for the year 1990-91.

| | | | |
|----|---|-----|-------------|
| 1. | Academic Staff College | Rs. | 8,66,000.00 |
| 2. | Library Books & Journals | Rs. | 2,50,000.00 |
| 3. | Laboratory Equipments | Rs. | 4,49,000.00 |
| 4. | Grants to <i>Dr. Irene Furtado</i> , Dept. of Microbiology | Rs. | 12,750.00 |
| 5. | Grants to <i>Dr. Saroj Bhosale</i> Dept. of Microbiology | Rs. | 10,500.00 |
| 6. | Grants to <i>Shri A.G.</i> Chachadi Dept. of Geology | Rs. | 15,750.00 |
| 7. | Research Grants to Dr. P.N Reddy | Rs. | 6,665.00 |
| 8. | Latin American Studies | Rs. | 3,00,000.00 |
| 9. | Development of University Complex | Rs. | 9,00,000.00 |

| | | |
|---|-----|-----------|
| 10. Joint UGC-CSIR junior Research Fellowship | Rs. | 96,400.00 |
| 11. M. Phil | Rs. | 28,136.00 |
| 12. Major Research Project Dr. S. Mavinkurve | Rs. | 65,000.00 |
| 13. Lump-sum Grant to Research Scholars Shri Felix Dias | Rs. | 500.0 |

c) The following grants have *been* received from the Central Govt. Departments for the year 1990-91.

| | | | |
|---|--|-----|--------------|
| 1. Council of Scientific & Industrial Research | CSIR Fellowship | Rs. | 23,720.00 |
| 2. - d o - | project of Interaction | | |
| 3. - d o - | Dr. S. Mavinkurve | Rs. | 1,96,400.00 |
| 4. Department of Ocean Development | project of Dr. A. V. Salkar | Rs. | 76,400.00 |
| 5. Department of Science & Technology | Marine Research Development Fellowship | Rs. | 1,11,000.00 |
| 6. Indian Council of Cultural Relation | Group Monitoring workshop | Rs. | 1,14,000.00 |
| 7. - d o - | Grants to Angolan students | Rs. | 12,380.00 |
| 8. Department of Bio-Technology | Tour Expenses to Foreign students | Rs. | 95,000.00 |
| 9. Department of Environment, Forest & wild life | post-graduate course in Marine Bio-tech. | Rs. | 20,99,000.00 |
| 10. Indian Council of Historical Research | project on sediment Flux of River Dr. G.N. Nayak | Rs. | 95,000.00 |
| 11. Department of Atomic Energy | Research project Dr.N. Shyam Bhat | Rs. | 4,750.00 |
| 12. Inter university Consortium, Indore, M.P. | Genetic Studies on Pseudomonous-Dr.S.Mavinkurve | Rs. | 40,120.00 |
| 13. - d o - | project on Neutron Scattering | Rs. | 50,000.00 |
| 14. National Science Academy, Delhi | Dr. R.B. Prabhu | Rs. | 50,000.00 |
| 15. National Board of Higher Mathematics Bombay | project on instrucional studies Dr. De Sa | Rs. | 5,000.00 |
| 16. Department of Ocean Development, Delhi | National Conference Dept. of Mathematics. | Rs. | 25,000.00 |
| 17. International Centre for Theoretical Physics Italy (U.S. \$ 1500) | | Rs. | 20,000.00 |
| | | Rs. | 26,822.00 |

V) Foreign Visits:

- i) Prof. O.J.F. Gomes visited the U.K. for investigation into and collection of research material for the departmental project of Reconstruction of old Konkani literature", selected by U.G.O under their scheme of "Source Material Access Visit", He also visited Paris in pursuit of the same purpose, Material in Konkani from those European libraries was collected and the rest ordered.
- ii) Dr. Pratima P. Kamat participated in the tenth International Economic History Congress at the Katholik University, Leuven, Belgiumn from 20th - 24th August, 1990, and presented a research paper entitled, "Agrarian Relations in Portuguese Goa 1946 - 1961".
- iii) **Dr. M. Ganesh** has gone to the University of Bath, U.K. under the CommonWealth Fellowship Programme.

VI. Authorities of the University :-

Separate list of the members of the Executive Council, the Academic Council, the Court the Planning Board and the Finance committee are given in Annexure 11,111,1V,V & VI A list of the various Deans of the Faculties and officers of the University is given as Annexure VII & VIII. The details regarding the meetings of the Executive Council and the Academic Council and the important decisions taken by these authorities during the year under reference are as follows :-

The Executive Council held twelve meetings during the year under report. Some of the important decisions taken by the Executive Council in these meetings are given below:-

1. Approval of the rate of interest creditable to the CPF Account of the subscribers for the year 198&89.
2. Approval of additional staff for the Sports Department of this University.
3. Creation and filling in of the post of Director of Students Welfare and Cultural Affairs.
4. Levying of maximum penalties on the contractors.
5. Promotion to the non-teaching staff of the ex-CPIR.
6. Statute relating to the Constitution of the Sports Council (under Section 20 of the Goa University Act, 1984.)
7. Recommendations of the Selection Committee for appointment to the post of 1) Reader & Lecturer in Economics, 2) Professor in Geology, 3) Reader in Philosophy, 4) Reader in Political Science, 5) Lecturer in French and Readers (two posts) in History.
8. Revision of hire charges for use of University buses non-official purposes.
9. Rate of interest on CPF for the year 1988-89 and 1989-90.
10. Revised procedure adopted for dereservation of posts reserved for SC/ST canditates for appointment to teaching posts in the University/affiliated colleges.
11. Recruitment Rules for the post of Garden Superintendent and Asstt. Garden Superintendent.
12. Appointment of a member on the Buildings Committee in place of Shri S.A. Jawaid.

13. Appointment of Professor C. Mande, as a Consultant to the Department of Physics on honorarium basis.
14. Time Bound Promotional Scales to Group "D" Employees.
15. Rate of interest on Contributory Provident Fund.
16. Staff and financial requirement for the newly created departments of Botany and Zoology of this University.
17. Consideration of the Audit Report and Accounts for the year 1988-89.
18. Policy for the construction works in the Eight Plan.
19. Establishment of University Science Instrumentation Centre (USIC) Level-I.
20. Creation of a post of Asstt. Registrar in the Finance Division of Goa University.
21. Adoption of Annual Accounts for 1989-90.
22. Absorption of Officers of the Common Statistical Cadre of Government of Goa in the University.
23. Terms and conditions of service of the Vice-Chancellor.
24. Reporting of the action taken by the Vice-Chancellor of creating a post of Architect and appointing Shri S.A. Jawaid against this post on deputation basis.
25. Consideration and approval of the rates of Girl' Hostel.
26. Consideration and approval of the proposed amendment to Statute 5 and 14 relating to the Finance Officer and the Finance Committee.
27. Staff for the Guest House.
28. Creation of separate Faculty of Management Studies.
29. Proposal to insure the buildings in the University campus against fire, lightening, explosions, etc.
30. Creation of posts at Vice-Chancellor's residence.
31. Creation of supporting staff for Centre for Latin American Studies.
32. Proposal to enhance the financial powers of the Finance Officer for the purpose of drawing cheques and withdrawing money from Bank.
33. Formulation of College Council.
34. Appointment of Project Engineer.
35. Additional posts for University Administration.

The Academic Council held two meetings during the year under report. The important decisions taken by the Academic Council in the meetings are given below:-

1. Draft Ordinance for submission of dissertation for M.Phil, degree course.
2. Modification of Ordinance 0.13.3(b) to form a combined Board of Studies in Electronics & Telecommunications Engineering and Computer Engineering.
3. Examination fee and the remuneration to be paid for the University examinations.
4. Draft Ordinance regarding conduct of University Examinations at the respective colleges.
5. Draft Ordinance relating to out of turn practical examination at the third year B.Sc. degree course.
6. Amendment to Ordinance 0.19.2(1) relating to the Eligibility criteria for admission to the Ph.D. Degree course.
7. Draft Ordinance 21.47 relating to the M.A./M.Sc./[M.Com.](#) degree examination.
8. Vertical mobility for admission to the students who have passed Std. XII examination from Goa Board with vocational streams to join F.Y.B.Sc. (Home Science) 1990-91.
9. Admission given to various courses in this University during 1990-91 as special cases.
10. A.T.K.T. granted to students of Engineering faculty (FE., S. E „and T. E.) during the Academic year 1990-91.
11. To bring down the percentage from 50 to 45 for DBM (Diploma in Business Management) for admission.
12. Permission given to students of colleges in Goa who are sanctioned terms by the University of Bombay to opt for the Goa University.
13. To start M.Phil. course in Commerce from the Academic year 1990-91.
14. To consider the letter from All India Council of Technical Education, New Delhi, permitting Goa College of Pharmacy, Panaji to start M.Pharm. courses by papers in Quality Assurance vis-a-vis recommendations of Affiliation Inquiry Committee to start M. Pharm. course in Pharmaceutical Analysis and Research Pharmaceutics partly by papers and partly by research.
15. Permission to increase the number of candidates for guidance of Ph.D. research students.
16. Change in arrangement of terms for (1) D.A.M./D.B.M. courses (1991-92 and 1992-93) and (2) M.M.S. (1990-91).
17. Consideration of the proposed amendments to Statute S.107.12 and S.107.13.
18. Consideration of proposed amendments to Ordinance 0.18.2 relating to the formation of Teaching Departments in the Faculty of Pure Sciences.
19. Appointment of Sub-Committees of the Academic Council to draft academic policies of the University.

.20. Arrangements of terms for M.C.A. - 1990-91.

21. Consideration of the report of the Sub-Committees of the Academic Council regarding the recognition of Ph.D. Guides from National Institute of Oceanography.
22. Permission to increase number of candidates for Ph.D. under the guide.
23. To permit students to opt for Goa University examinations all levels all faculties including Ph.D. degree examinations.
24. Mobilization of Internal Financial Resources of Goa University to meet Non-plan deficit.

VII Legislative addenda, amendments, etc.

- (a) During the year under report one more statute numbering S.112 was added to the existing ones. It is as under :
S.112 - Statute relating to the Constitution of Sports Council.
- (b) During the year under report two more ordinances were added to the existing ones. They are as under:

0.35 - Ordinance relating to guidelines for allocation of marks in the practical examinations.

0.36 - Ordinance relating to out of turn practical examination at the third year B.Sc.

Amendments Statutes

1. Statute No. S.5 and S.14 relating to the Finance Officer and Finance Committee.
2. Statute No. S.41 - relating to the Constitution of University Faculties.

Ordinances

1. 0.13.3(b) - relating to the Constitution of Board of Studies in Faculty of Technology & Architecture.
2. 0.22.6.2 (a) & (b) - relating to the policy of admission to the M.Sc degree in the Faculty of Pure Sciences.
3. 0.19.2(i) - relating to the eligibility criteria for admission to the Ph.D. degree course.
4. 0.18.2 - relating to the formation of teaching departments in the faculty of Pure Sciences.
5. 0.19.5(ii) - relating to the number of candidates for Ph.D under a guide.
6. 0.18.4 relating to formation of teaching depts. under faculties in Goa University.
7. 0.3.12 relating to recognition of teachers as guide for Ph.D. degree.
8. 0.19.3(ii) relating to registration of Ph.D. degree.

Addendum

1. 0.21.47 - Ordinance relating to the M.A./M.Sc/[M.Com.](#) degree examination.
2. 0.25.65 - Ordinance regarding conduct of University examinations at the respective colleges.
3. 0.26.26,
0.26.27 &
0.26.28 - Ordinance for submission of Dissertation for M.Phil degree course.
4. 0.20 - Ordinance pertaining to fees to be charged and remuneration to be paid for University examinations.

CHAPTER II

UNIVERSITY TEACHING DEPARTMENTS FOR POST-GRADUATE COURSES.

The University has the following Post-graduate Departments.

1. Faculty of Arts, Humanities & Social Sciences

- 1.1 Department of English
- 1.2 Department of Hindi
- 1.3 Department of Konkani
- 1.4 Department of Marathi
- 1.5 Department of French
- 1.6 Department of Portuguese
- 1.7 Department of Economics
- 1.8** Department of History
- 1.9 - Department of Political Science
- 1.10 - Department of Sociology
- 1.11 - Department of Philosophy

2. Faculty of Pure Sciences

- 2.1** - Department of Mathematics
- 2.2 - Department of Physics
- 2.3 - Department of Chemistry
- 2.4 - Department of Microbiology
- 2.5 - Department of Geology
- 2.6 - Department of Zoology
- 2.7 - Department of Botany

3. Faculty of Applied Sciences

- 3.1** - Department of Marine Science
- 3.2 - Department of Marine Bio-technology
- 3.3 - Department of Computer Sciences & Technology

4. Faculty of Commerce & Management Studies

- 4.1** - Department of Commerce
- 4.2 - Department of Management Studies

5. University Centers

- 5.1** - Centre for Latin American Studies
- 5.2 - Centre for Woman's Studies

1.1 DEPARTMENT OF ENGLISH

i) Teaching and Research Staff:

| | | |
|----|--|--------------------|
| 1. | * Dr. B. V. Nemade M.A. (English), M.A. (Linguistics), Ph.D. | Professor and Head |
| 2. | Dr. S. S. Kulkarni M.A., Ph.D. | Reader |
| 3. | Dr. A. K. Joshi M.A., Ph.D. | Reader |
| 4. | Smt. Anita Vashishta M.A., M.Phil. | Lecturer |
| 5. | Shri. K. S. Bhat M.A. | Lecturer |
| 6. | Smt. Kiran Budkuley M.A. | Lecturer |
| 7. | Shri. A. R. Fernandes M.A. | Lecture |

* Left the University on 4/02/1991

II) Contributory Teachers:

There were no contributory teachers required to be invited since the Faculty has its full complement.

III) Visiting Teachers:

Shri Hartman D'Souza, Specialist in Commonwealth Literature was invited as a visiting teacher to deliver a course of 12 lectures on Core Course EN C 8 : Commonwealth Literature to the students of M.A. (English) Part II. The lectures were extremely useful.

iv) Details of Research Students:

| Sr. No. | Name of the Research Guide | Research Degree | |
|---------|----------------------------|-----------------|-----------------------|
| | | M.Phil. | No. of students Ph.D. |
| 1. | Dr. B. V. Nemade | | 2 |
| 2. | Dr. S. S. Kulkarni | | 6 |
| 3. | Dr. A. K. Joshi | 2 | 2 |

Among the students registered for M.Phil. (English), Mrs. Cidalia Bodade successfully completed her M.Phil. course before the end of December 1990.

v) Participation in Seminars, Conference etc:

(a) Dr. S. S. Kulkarni

- i) Delivered a lecture as the Chief Guest at the Annual Day Celebrations of Shri. Aurobindo and the Mother Centre, Dandeli on the topic of "The nature and relevance of Shri Aurobindo's Contribution to Indian English Literature and to Indian Culture," on 11 October, 1990.
- ii) Was invited as U.G.C. visiting Lecture to deliver a course of 8 lectures on British Literature, Literary Criticism and Indian English Literature at the Dahod College of Arts and Commerce at Dahod, North Gujarat in the second week of February 1991.

(b) Dr. A. K. Joshi:

- i) Read a paper on Marxist Literary Criticism in Marathi at a Seminar on 'Recent Trends in Criticism' organised by the Pragat Sanshodhan Kendra, Dadar on 26th and 27th November 1990.
- ii) Participated in a Seminar on 'One Hundred Years of Marathi Short Story' organised by Gomantak Marathi Academy, Panaji on 28th, 29th and 30th March, 1991.
- iii) Attended a workshop for writers of teaching material organised by the Yashwantrao Chavan Open University at Pune on 1, 2,3 May, 1990.

(c) Smt. A. Vashishta :

- .i) Attended **and** participated in the Seminar on Latin American Studies at the Goa University in February 1991.

(d) Shri A. R. Fernandez

- I) Participated in the Seminar on India-Latin America Relations. Organised by Centre for Latin American Studies at Goa University on 25th and 26th February, 1991.
- ii) Involved in ongoing process of streamlining the examination system under the Restructured M.A Courses especially in development of formats for efficient maintenance of record/results.

vi) Publications:

(a) Dr. S. S. Kulkarni:

- i) Published a book, The Plays of Sr. Aurobindo: A Study in Novemebr 1990.

(b) Dr. A. K. Joshi:

Book:

Aesthetics of Change: Christopher Caudwell's Literary Criticism, Bombay: Shalaka Prakashan, August 1991

Articles:

Rejoinder to Dilip Chitre's article on Tukaram Ugwai Jan - Feb. 1991.

(a) Smt. A. Vashishta:

i) In Search of Redemption (review-Essay on Violet Dias Lannoy, Goan novelist) in Goa Today Nov. 1990.

ii) From Cerebral Archives Into Settled Rhythms (Essays on Dom Moraes in Goa Today, March 1991)

vii) Contribution of the Department to the University activities:

Miss Nina Caldeira, student of M.A. Part II participated in the All India Paper Reading Contest organised by the University of Poona on 14-15 February 1991 at Pune. She won the consolation prize.

viii) Other Details:

Dr. A. K. Joshi

- i) Gave lectures at the Academic Staff College for orientation Course participants.
- ii) Lecture on a book written by Shri K. S. Sadre in August 1990;
- iii) Lecture on Marathi poetry at a Seminar on Marathi Poetry organised by Gomantak Marathi Academy in February 1991.

ix) Awards:

- i) Received from Prof. R. S. Jog award for the best book on Literary Criticism in Marathi for the year 1988, 1989 for the book Caudwell cha Kalavishar.
- ii) The best book award for the period 1987-1989 from Gomantak Marathi Academy for the book mentioned above.

x) Assessment of Thesis:

Evaluated an M.Phil. thesis on Ruth Praver Jhabwalla by a candidate from University of Bombay.

1.2 DEPARTMENT OF HINDI**(I) Teaching and Research Staff in the Department:**

1. Dr. A. K. Pandey, M.A. Ph.D., D.Litt, Prof. & Head
2. Dr. B. R. Mishra, **M.A.**, Ph.D., Reader.
3. Dr. B. K. Sharma, M.A., Ph.D., Reader.
4. Dr. (Mrs.) Ishrat Bi Khan, M.A., Ph.D. Lecturer.
5. Dr. S. D. Tripathi, M.A., Ph.D., Lecturer.
6. Dr. R. N. Mishra, M.A., Ph.D., Lecturer.
7. Miss Chhaya Chodankar, M.A., Lecturer.

(ii) Visiting Teachers:

1. Dr. Pramanand Shrivastava, Gorakpur University.
2. Dr. (Mrs.) Saroj Saxena - Delhi University.

(iii) Details of Research Students:

| Name of the teacher | No. of students |
|---------------------|---|
| 1. Dr. A. K. Pandey | 1. Shashibhusan Varma 2. Sirguvankar 3. Mrs. Shubhada Joshi |

Mrs. Chardralekha D'Souza has submitted her thesis & Viva also is finished recently.

| | |
|---------------------|--|
| 2. Dr. B. R. Mishra | 1. Shri S. S. Varma 2. Shri D. I. Ram |
|---------------------|--|

Mrs. Shilpa is awarded M.Phil. Delgree.

| | |
|---------------------|--------------------------|
| 3. Dr. B. K. Sharma | 1. Mrs. Ramaswammy Ayyar |
|---------------------|--------------------------|

(iv) Participation in Seminars, Conferences, Workshops etc.

1. Hindi Department organised two seminars. One on Mass Media, individually and the second with the help of Kendriya Hindi Nideshalaya. In these seminars all the teachers took part. Dr. Pandey was the Chairman in both and Dr. B. K. Sharma and Dr. Satyadev R. Tripathi read their articles in the first seminar.
2. N.1.0., Panjim, organised a workshop on 'Hindi Diwas' where the following teachers delivered the lectures:-
 1. Dr. A. K. Pandey) Introduction & Basic Concept of the
 2. Dr. B. R. Mishra) Workshop.
 3. Dr. I. B. Khan
 4. Dr. Satyadev Tripathi - Art & Technic of translation.
 5. Dr. R. N. Mishra - Importance of Hindi language.
 6. Prof. Chhaya Chodankar - Hindi Grammar.

Individual Participation:

1. Dr. B. K. Sharma

- (1) N.C.E.R.T. Text book syllabus seminar, June '91 at P. G. Complex & Research Centre - Hyderabad.
- (2) New Writer's Workshop C. H. Directorate, P.G. Complex Hyderabad, from 4th to 12th Sept. 1991.

- 2) Dr. Satyadev Tripathi

- (1) University of Bombay - "Snatkottar Kakshoan Men Adyayan Ki Pranaliyan". Read article on Teaching Natak, February '91.

- (2) Poona University - "Maharashtra Ki Hindi Patrakarita". Article - Patrakarita Aur Sahityik Patrakarita", March 1991.
- (3) Sahitya Sanvad, Panjim - 'Neelachand Ek Mulyankari', March '91.

(v) Publications:

Dr. B. R. Mishra:

1. Ek Samiksha - Samishin Bombay, April, 1990.
2. Marxwadi Saundayashatriki Samiksha. 'Kupambara' Calcutta, accepted for publication..
3. Agneye Ki Kavita Ki Rachana Prakriya 'Utsava' New Delhi, accepted for, publication.
4. Dusara Vani 'Ki Samiksha' accepted for the book by Rupanbara.
5. 'Tele Film' - Sanchar Madhyam, published by Milind Prakashan Hyderabad.
6. Uttar Yogi - to be published in the book on Dr. Shivprasad Sing, Edited by Dr. Premchand, Jain, Nazildabad.

Book

7. (i) "Svatantyottar Hindi samiksha sidharat" - 'Lokbharati Prakashan.
- (ii) Agneye Ke Upanyason Ki Rachana Prakriya - to be published from Aid.

Dr. B. K. Sharma:

- (i) Article 'Swadesh Bharati Ki Karya Bhasha, published in 'Rupanbara' Calcutta.
- (ii) In Samkalin Alochans, Delhi.
- (iii) Puma Kambha, Hyderabad.

Dr. Satyadev Tripathi: Article In the Magazines

- (i) Raat Bhar Jagaya Narakasur Ne Goa Valon Ko - Gomantak, (Marathi), Panjim, 21st Oct, 1990.
- (ii) Nagpur Ka Hindi Rangmanch, 'Lokmat Nagpur, 5th Sept. 1990.
- (iii) 'Aise Bhi to Sam Bhar Hai Karita' - *Jansatta Sabrang' Bombay, 30th December, 1990.
- (iv) 'Bombay Mera Pardesh', 'Jansatta Sabrang', Bombay, 20th January, 1991.
- (v) Gurukul Ki Samikshi - Samichin, Bombay, April '90

Book:

Samiksha Ke Vyavaharik Sandeebh Soch - Sarvekshan Avam Prastuti under publication.

Articles accepted for publication:

1. "Neela Chand" Kitans Dharal Kitan Neela - Dastarez, Gorakpur.
2. Natakon Ke Adyeyan Ki Pranliyan - 'Natrang' - Delhi
3. 'Renu Ki Prakhyaat Kahaniyan', book to be published from Bihar, Edited by Dr. Ashok Kumar Alok.
4. 'Shalush' Ki Samikshans - book, Edited by Dr. Pramchand Jain, Nazibabad.
5. Sakshikkar Avam Chaccha Paricharcha - book on Mass Media publication, edited by Hindi Dept. Goa University under publication - Milind Prakashan, Hyderabad.

Dr. R. N. Mishra:

1. Article published in the book Babasaheb Ambedkar Gaurav Grants - "Dr. Bhimrao Ambedkar.
2. Samachar Akalan in the book 'Samachar Madhyam to be published by Milind Prakashar, Hyderabad.

Book:

Dr. Shiva Mangal Singh Ki Krityon Ka Samikshatmik Adhyayan, Sahitya Ratnakar Prakshan, Kanpur.

(vi) Other Details:

1. Celebration of 'Hindi Day' with cultural programmes.
2. Organised two seminars in the Academic year 1990-91.

1.3 DEPARTMENT OF KONKANI**I Teaching & Research Staff:**

- | | |
|-----------------------------------|------------------|
| a) Dr. O.J.F. Gomes | Professor & Head |
| Portuguese Lyceum, M.A., Ph.D. | |
| b) Mrs. P. S. Tatkodkar | Lecturer |
| M.A., D.H.E. | |

Research Project

- i) A project entitled "Reconstruction of old Konkani Literature" is in progress suo mob, expecting it to be assisted by U.G.C., for which application already submitted, for eventual publication of re-constructed old Konkani classics.
- ii) Three Konkani classics of old nearly finalised for publication. Reconstruction of another Konkani work is in progress.
- iii) Dr. Gomes is engaged in preparing (a) a Bibliography of Interlanguage translation in Konkani as well as (b) Contributing to the History of Indian literature, volume for the period 1911-1956 (Konkani Section) sponsored by the Sahitya Akademy, New Delhi.
- iv) Planning an anthology of Medieval Indian Literature (Konkani) for the Sahitya Akademy, New Delhi.

Visitors to the Department:

- 1) Shri N. N. Anandan, Member of the Konkani Advisory Board of Sahitya Akademi, visited the Department during his stay on the campus while attending the Workshop of Literary Translation in Konkani and discussed the structure & content of various courses in Konkani proposed for fullflecOged post-graduate studies on the anvil.
- 2) Shri Yeshwant Palekar, President, Konkani Bhasha Mandal visited the Department & discussed the course content of post-graduate papers as well as assistance in preparation of diploma courses by K.B.M.
- 3) Padmashri Dr. R. V. Pandit visited the Deptt. and discussed matters relating to courses etc.

M Visits abroad

Selected by U.G.C. under their scheme of "Source Material Access Visit", Prof. O.J.F. Gomes visited the U.K. for investigation into and collection of research material for the departmental project of "Reconstruction of old Konkani Literature". He also visited Paris in pursuit of the same purpose. Material in Konkani from those European libraries was collected and the rest ordered.

V Seminars, Workshops, etc.

Dr. O.J.F. Comes:

- i) Organised, under the auspices of the Sahitya Akademi, New Delhi, a Short-Story Reading programme in Konkani, at which before a select audience, four Konkani Short-Story writers read out their works, followed by a discussion on various aspects of the Short-Stories, on the University Campus at Taleigao, on 30th June, 1990.
- ii) Attended the National Seminar on "Dnyaneshwari" organised by the Sahitya Akademi, New Delhi, in August, 1990.
- iii) Participated in the Seminar organised by the Progressive Students' Union on the theme "Language & Education" on 1st September, 1990, in Panaji and presented a paper on 'Development of Konkani & its Promotion as the Sole Official Language of Goa.'
- iv) Contributed to the National Seminar organised by Sahitya Akademi, New Delhi on "Contemporary Indian Literature" in Oct., 1990, in Kanpur, with a paper on "The Myth in Literature."
- v) Organised the Sahitya Akademi Seminar on "Nation, History & Literature," held on 5th & 6th December, 1990, Panaji, Goa, in commemoration of fifty years of the Konkani Bhasha Mandal movement launched in Karwar in 1939, as National Convenor of the Akademi's Advisory Board in Konkani, in collaboration with the Goa Konkani Akademi, with participation of scholars from the five languages of the Western Region, i.e. English, Konkani, Marathi & Gujarati & Sindhi, and presented the Key-note Address at it, on invitation by the Akademi. Inaugural Address delivered by Dr. P. R. Dubhashi, Vice-Chancellor, Goa University.
- vi) Organised and conducted the Workshop, as its Director, on 'Literary Translation in Konkani' under the sponsorship of the Sahitya Akademi, New Delhi, in collaboration with the Konkani Department of Goa University, with participants from Goa, Kerala and Karnataka, on January 1st to 6th 1991, both days inclusive.
- vii) Participated in National Seminar on 'Indian Literature - and end - century assessment' organised by Sahitya Akademi, New Delhi, in February, 1991.
- viii) Delivered series of five lectures in Konkani on the "History of Konkani Literature" for T.Y.B.A. students of Smt. Parvatibai Chowgule College, Margao in February, 1991., under the U.G.C. COHSIP Programme.
- ix) Participated as a Member of the Executive Board & General Council of the Sahitya Akademi, New Delhi in its deliberations at the national and regional level including chairing of the meeting of the Akademi's Advisory Board in Konkani for promotion of literary publication in Konkani, exchange of literary works among Indian languages, implementation of various projects of national importance, etc.

- x) Participated in Sahitya Akademi Workshop on preparation of "A History of Indian Literature" 1911-56, in respect of Konkani, in January, 1991.
- xi) Conducted Konkani classes and presented papers at the Konkani Shikshak Sanad Teaching Scheme Courses, organised by Konkani Bhasha Mandal in Margao, Panaji and Mapusa, evaluating their answer books etc.
- xii) Participated in the Training Courses for the government servants in the official language implementation programme of the Government with a talk on the history of Konkani language and literature in January, 1991.
- xiii) Participated in the Academic Conference of the first International Goan Youth Convention, Panaji, Goa on 22nd December, 1990 & presented a paper on 'The Role of Konkani in Goa Resurgence.'
- xiv) Participated in the U.G.C. Workshop on division of syllabus & paper-setting for the National Educational Testing (N.E.T.) evaluation programme and carried out the work in Konkani for the first time, in Oct., 1990.
- xv) Participated in a Hindi Seminar on modern teaching methods.

Mrs. P. S. Tadkodkar

- i) Delivered a series of lectures on "Konkani short Stories & Literary Essays" in Chowgule College, Margao for B.A. students under CQ,HSIP Scheme from 19-21st March, 1990.
- ii) Worked in the capacity of Key resource person in the workshop on "Konkani Grammar & Orthography" organised by Deptt. of Education, State Institute of Education & District Educational Institute of Training for primary teachers at Panaji on 18th April, 1991.
- iii) Delivered a series of lectures on Konkani Grammar & Orthography to resource persons, organised by SIE & DEIT at Panaji from 23rd to 25th April, 1991.
- iv) Delivered a Commentary address to primary teachers on curriculum, in "Healthy Living" on 30th April to 2nd May, 1991.
- v) Attended a Seminar on "Nation, History & Literature" jointly organised by the Sahitya Akademi & the Goa Konkani Akademi at Institute Menezes Branganza Hall, Panaji, from 5th to 6th December, 1990.
- vi) The International Seminar on 'Maritime Encounter of East and West during 15th-19th Century A.D.' organised by UNESCO INTACH & Archaeological Survey of India at Fort Aguada Resort 6th-8th December, 1990.
- vii) The International Goan Youth Convention held in December, 1990.

VI Publications:

- i) **Dr. O.J.F.** Gomes critical research article entitled 'A Cheerful Blossoming' embodying the annual survey of Konkani literature in all scripts for 1989 was published in "Indian Literature", official Literary bi-monthly of the Sahitya Akademi in its Oct.-Nov., 1990 issue.

- ii) His Notes/Articles on several topics relating to Konkani literature were published in Volume IV of the Encyclopaedia of Indian Literature of the Sahitya Akademi, New Delhi, released in May, 1991.
- iii) The Konkani translation of the famous Bengali Novel. "Anand Math" of Bankimchandra Chatterji, done by him was published by Sahitya Akademi, New Delhi, in March, 1991.
- iv) The Konkani translation of 'Mensagem' of the famous Portuguese poet, Fernando Pessoa, entitled 'Sandesh' done by him, was published in December, 1990.
- v) His historical research article on early printing in India including that in Konkani, Tamil & Bengali languages, entitled 'The First Editions' was published by the prestigious 'SUNDAY MAIL MAGAZINE' in its issue dated 17th-23rd March, 1991, brought out simultaneously from Calcutta, Bombay, Delhi & Madras.
- vi) His article entitled 'Dr. Ambedkar - as an educationist' was published in Nevem Parva Special Issue of the Govt. of Goa's Department of Information & Publicity, along with his articles in Konkani & Marathi topics.
- vii) His article entitled 'The Messiah of the Oppressed' was published in the "Babasaheb Ambedkar Gaurav Granth" brought out by the Govt. of Goa's State-Level Ambedkar Centenary Celebrations Committee, in April, 1991.
- viii) Another article was published in the special issue of "Social Welfare" magazine of the Deptt. of Social Welfare, Govt. of India, entitled "Dr. B. R. Ambedkar - an educationists viewpoint."
- ix) Edited with an introduction the book of poetic drama - three plays - of the Sahitya Akademi Award - Winning poet, J. B. Moraes entitled "Putifarachi Bail" published in December, 1990.
- x) "Konkani language & Literature" & 2) Aspects of Goan Cultural Heritage" published in "Proceedings of the International Goan Convention - Academic Deliberations Toronto", Canada - published this year by the G.O.A. Toronto, Canada, 1990.
- xi) "The Goan Jallianwallah Bagh", researched historical article on the centenary of a bloody revolt during elections in Goa in 'The Navhind Times' dated 16/9/1990.
- xii) "Setembrachem Bondd" in Goencho Avaz 'Konkani Daily' dated 21/9/1990.

VII **Contributions:**

- i) Contributed to the Konkani Encyclopaedia of the Goa University on several topics.
- ii) Tendered advice to prospective candidates for the Civil Service Examinations, on constant and frequent basis.
- iii) Served as member, Advisory Committee of the Govt. College of Arts, Science & Commerce, Khandola, Marcela, on behalf of the Goa University & attended meetings, inspections, etc.
- iv) Served as member of the Affiliation Committee of the University in the matter of inspections of the facilities of an academic infrastructure in the P.E.S. College at Farmagudi (Ponda) and Carmel College for Women at Nuvem, Goa.
- v) Edited the Annual Report of the Goa University for 1989-90, as Chairman of the Editorial Board appointed by the Vice-Chancellor.

**VIII Any other details:
Dr. O.J.F. Comes:**

- i) Contributed a foreword to the book in the press entitled "Liberation of Goa-before & After by Adv. Robert de Souza, a leading freedom fighter and writer, at his request.
- ii) Contributed with incisive couplets of poetry in Konkani & English to the unique national entitled "Artists against Communalism — IMAGES AND WORDS" - organised by SHAMAT, New Delhi, an organisation of artists & writers, on invitation, later included in one of the 40 panels put up in a national exhibition of select 400 writers, artists & designers from all over the country, in New Delhi, in April, 1991.
- iii) Presented a thoroughly researched historical T.V. feature on the bloodshed at the Municipal Elections in Margao on 21st Sept., 1990, on the occasion of the centenary of that great event in the annals of Goan history, on 21/9/90, in Konkani entitled "Banddacho Pettlo Uzo" (The eurp-tion of a revolt) on Goa Doordarshan, Panaji, Goa.
- iv) Presented a commentary & snippets on Mahatma Gandhi Jayanti - linking R. V. Pandit, the famous Konkani poet, just demised, an ace photographer of Gandhiji, with the great man, on Goa Doordarshan, in Konkani, on 3rd October, 1990.
- v) **Mrs. P. S. Tadkodkar** - Her translation of "Bhartiya Sahitya Shastra" by G. Deshpande, from Marathi into Konkani, is in progress.

1.4 DEPARTMENT OF MARATHI

(I) Teaching and Research Staff in the Department

- i) Dr. P. B. Wader Professor and Head
M.A., Ph.D.
- ii) Dr. S. D. Komarpant Lecturer (Reader w.e.f. 20/6/91)
- iii) Shri V. D. Sawant Lecturer
M.A., M.Phil.

| (II) | Name of the teacher (Research Guide) | M.A./M.Sc. for Research Students | | Ph.D. No.of Students | |
|------|---|--|--------------|----------------------------|--------------|
| | | Full time | Part time | Full time | Part time |
| | . Dr. P. B. Wader | | | 3 | Nil |

One has submitted thesis for Ph.D.

(III) Visitors to the Department

Dr. S. G. Tulpule, M.A., Ph.D. (Retired)
Eminent Scholar & Critic

- 2 Prof. M. V. Dhond, M.A. (Retired)
Eminent Critic Scholar

3. Dr. V. R. Karandikar, M.A., Ph.D.
Reader, Dnyaneshwar Adhyasan,
University of Poona', Eminent Critic.
4. Dr. Ashok Kamat, M.A., Ph.D.
Professor, Namdeo Adhyasan
University of Poona
Eminent Scholar and Critic.
5. Dr. V. P. Ginde, M.A., Ph.D.
Prof. & Head
Dept. of Marathi,
Pandharpur College, Pandharpur,
Eminent Critic and Authority on Medieval Marathi Literature.
6. Father Felix Machado
Prof. of Comparitive Religions,
St. Pius College, Goregaon, Bombay.

These visitors visited the Deptt. at Bambolim from 18th Feb. to 9th March, 1991 and delivered lectures on Dnyaneshwari under the auspices of Goa University (Deptt. of Marathi) in collaboration with Maharashtra Information Centre and Gomantak Marathi Academy, Panaji from 18th Feb. to 9th March 1991.

(IV) Participation in Seminars, Conferences, Workshops, etc.

(For the period from June 1990 to May 1991)

Dr. P. B. Wader -

- | | |
|----------|---|
| 28/10/91 | Arathi Sahitya Sammelan Sindhudurg, District Sawantwadi. Read a paper on the Modern Marathi Shorty Story. |
| 17/1/91 | Farmagudi College P.E.S. College delivered a lecture on Dnyaneshwari. |
| 28/3/91 | - Read a paper on Marathi Laghukatha - 1920 to 1945, at the Marathi Katha Shatabdi Mahotsav, organised by Goman- tak Marathi Academy, Panaji. |

A Articles:

- | | |
|------------|--|
| May, 1991. | Article on "Mrid-gandha" by Smt. Indira Sant in Maitra, May 1991. |
|------------|--|

Dr. S. D. Komarpanth (Reader in Marathi)

- | | |
|------------|--|
| 1) 28/7/91 | Talk on 'Chitraveena' at the Sahitya Mandal at Panaji. |
| 2) 30/7/91 | Talk on 'Chitraveena' at the 'Chitraveena' organised by Smt. Parvatibai Chowgule College, Margao. |

- 3) 13/8/91 Talk on 'Poetry by Balkavi' organised by Smt. Parvatibai Chowgule College, Margao.
- 4) 1st & 2nd Oct. 1990 Participated in the Seminar on Shri Dnyaneshwari Triveni Sangam organised by Osmania University (Deptt. of Marathi) Akhil Bharatiya Marathi Sahitya Mahamandal and Marathi Sahitya Parishad (AndhraPradesh) at Hydrabad.
- 5) 28/10/90 Participated in a seminar organised by Sindhudurga District Aarati Sahitya Sammelan at Sawantwadi on Contemporary Marathi Literature.
- 6) 22/10/90 Participated in a seminar at 64th Akhil Bharatiya Marathi Sahitya Sammelan Ratnagiri on 'The Regional Novel in Marathi'.
- 7) 13/1/90 Talk on 'Poetic Beauty in Dnyaneshwari' organised by Sanmitra Mandal, Paingini, Canacona.
- 8) 17/1/91 Talk on 'Dnyaneshwari' organised by Ponda Education Society's College of Arts & Science, Farmagudi.
- 9) 10/2/91 Participated in a Seminar organised by Gomantak Marathi Akademi at Mashel on 'Autobiographies by Women Writers in Marathi.'
- 10) 24/3/91 Read a paper on 'Short-Stories by Haribhau Apte' in a Seminar at Marathi Katha Mohotsava organised by Gomantak Marathi Akademi, Panaji.
- 11) 16/4/91 Talk on 'Dnyaneshwar & Dnyaneshwari' organised by Ganeshotsava Mandal and Marathi Sanskar Kendra, at Sanquelim.
- 12) 14/4/91 Talk on 'Prof. A. K. Priolkar' : Life & Mission organised by Marathi Bhasha Parishad at Ponda.
- 13) 02/5/91 Talk on 'Balkrishna Waman Sawardekar : Life and Mission' organised by B. W. Sawardekar Smarka Samiti at Panjim.

Articles:

- i) Poetic Beauty in Dnyaneshwari 'Maitra December, 1990.
- ii) Poetry by Kusumagraj, Tarun Bharat, 27th Feb. 1991.
- iii) Dr. Ambedkar : Life & Mission : 'Dr. Ambedkar Gaurav Granth', Government of Goa.

Shri V. D. Sawant

- 1) Read a paper on 'Appreciation of poetry' in the poetry workshop arranged by 'Gomantak Marathi Academy' at Dhargal, Goa. Feb. 1991.
- 2) Participated as a resource person in the symposium on Marathi short-story arranged by Department of Marathi Chowgule College, Margao. Jan. 1991.

- 3 Participated in three day seminar on 'Marathi Short story 100 years' organised by Gomantak Marathi Academy at Panaji - March, 1991.

Publication:

- 1 A review-article published in 'Ugwal' February 1991 issue.

1.5 DEPARTMENT OF FRENCH

(I) Teaching and Research Staff in the Department

1. Dr. Belinda Fernandes Lecturer & Head
Ph.D. (French)
2. Shri Prasad Barve Lecturer
M.A. (French)
D.S.A.F.K.L.E. (French)

(II) Contributory Teachers

1. Dr. Manohar L. Sardesai Retired. (Ex-Coordinator & Head,
Ph.D. (French) Dept. of French Goa University).

Number of Lectures - 2 lectures a week till Oct. 1991 (1st Term).

(III) Research Projects

- a) A description of the Konkani language in French (in collaboration with the Rene Descartes University - Paris Sorbonne).
- b) Portrayal of the Family in the works of Francois Mauriac.

(IV) Visitors to the Department

1. Mrs. Sira Coelho Galli To contribute books on French Literature
Ph.D. (French) to the Dept. & to converse in French
with our students.

(V) Participation in Seminars, Conferences, Workshops etc.

Organised a seminar on the 20th of July, 1991 on "Teaching of French in Goa. Methods and Perspectives" for the teachers of French working in *the* affiliated Colleges in Goa University. The resource person were: Dr. M. L. Sardesai, Mr. Prasad Barve, Dr. Belinda Fernandes.

(VI) Publications

Department brought out a journal in French entitled "FEUILLES" with articles on French Literature, poems in French and a critical analysis of French authors.

1.6 DEPARTMENT OF PORTUGUESE

1) Teaching staff

Dr. (Miss) Maria Selma de Vieira Velho Lecturer & Head
M.A., Ph.D. Portuguese Literature

2) Visiting teachers

I - Mr. Antonio de Silva Carvalho visited this Department from August '90 to February '91 under Indo-Portuguese Bilateral Cultural Agreement.

II - Mr. Pedro Barbosa Monteiro is a visiting lecturer in this Department since January '91 under Indo-Portuguese Bilateral Cultural Agreement.

3) Visitors

I - His Excellency the State Minister for Foreign Affairs of Government of Portugal Mr. Durao Barroso accompanied by His Excellency the Ambassador of Portugal Dr. Alvaro Guerra and a Committee of heads of Portuguese Scientific and Cultural Institutions visited the University and this Department. The Vice-Chancellor Dr. P. R. Dubhashi held a reception in honour of the visiting dignitaries and a number of trees were planted to commemorate the occasion. Later these were talks on the future interactions on various University fields in teh Vice-Chancellor's Chamber in the presence of the RegisDr. S. K. Gandhe and the Deans and Heads of various faculties and departments including Portuguese.

II - Dr. Jose Miguel Rebeiro Lume Coordinator of Portuguese Readership in Asia and Portuguese Reader at University of East Asia in Macau visited this Department.

III - Dr. Carmen Radulet, Associate Professor of Portuguese at University of Viterbo, Italy, visited this Department.

IV - Dr. Antonio Vasconcellos de Saldanha, Associate Professor of Law at University of Lisbon visited this department.

V - Prof. Rocky Miranda of - Department of Linguistics at the University of Minesota, **U.S.A.** visited the Department.

VI - Prof. Hanuman R. Kambli of Goa College of Arts visited this Department.

VII - Dr. Maria Natalia Vaz - Pires Biek, Lecturer of Portuguese at the University of Calcutta visited this Department.

VIII - Dr. Antonio dias Farinha, Director of Institute **of Arabic and** Islamic Studies, Lisbon, visited this Department.

IX - Dr. J. Biek, Director of Max Mueller Bhavan of Calcutta visited this Department.

4. Visits Abroad:

I - Five students of the Department of Portuguese namely Mr. Musa Aga, Miss Nizia Barbosa, Mr. Jaime Couto, Mr. Athos Fernandes and Mr. Savon K. Sanyal were granted scholarships by IPOR (Instituto Portuguese do Oriente) and I.C.M. (Instituto Cultural de Macau) to attend a high level

summer course of Portuguese Language and Culture and the University of East Asia in Macau in August 1990.

II - Two students of this Department namely Mr. Musa Aga and Mr. Athos Fernandes were granted scholarships by ICALP (Instituto de Cultura e Lingua Portuguesa) and FUN DACAO ORIENTE to attend one year intensive course of high level Portuguese Language and Culture at the University of Lisbon.

III - Two students of this Department namely Mr. Musa Aga and Mr. Athos Fernandes were granted scholarship by ICALP to attend a summer course '91 of high level Portuguese Language and Culture at University of Lisbon.

5. Participation in Seminars, Conference, Workshops etc.

I - Dr. Velho was invited by INTACH and UNESCO to present a research paper as part of Asia's Celebrations of the year-long World-Wide commemorations of 500 YEARS OF PORTUGUESE DISCOVERIES (at Fort Aguada on 6/X11190) at the International Seminar of UNESCO-INTACH ON SILK Route and 500 Years of Portuguese Discoveries. Dr. Velho's paper was on "A SAGA OF SWEET DREAMS MANACED BY NIGHTMARES - THE LUSTADAS OF CAMOENS".

II - The Embassy of Portugal Cultural Centre selected a student of this Department Mr. Sovon K. Sanyal to study the Cultural and Linguistic Interaction of the Lost Portuguese Colony of Mydnapore".

6 Contributions to Co-Curricular activities:

The project for the Pre-orientation of Methodologies of Teaching for Secondary and Higher Secondary Teachers of Portuguese in collaborations with the Cultural Department of Embassy of Portugal has been successfully implemented in its phase II.

1.7 DEPARTMENT OF ECONOMICS

1) Teaching Staff

- | | | |
|------|---|------------------|
| i) | Dr. M. A.ghahi M.A. (Mysore), M. A. (Chicago) Ph.D. (Kent), F.S.S. (London) | Professor & Head |
| ii) | Dr. A. R. Padoshi M.A., Ph.D. | Reader |
| iii) | Mrs. S. M. Noronha M.A., D.H.E. | Lecturer |
| iv) | Shri Errol D'Souza M.A. | Lecturer |
| v) | Kum. Halima Sadia M.A. | Lecturer |

I) Research Students

| | Name of the Teacher (Research Guide) | Ph.D. | | Total | Univ. |
|----|---|-----------|-----------|-------|--------|
| | | Full Time | Part Time | | |
| 1. | Dr. M. A. Shahi | 1 | 3 | 4 | Goa |
| 2. | Dr. A. R. Padoshi | Nil | 5 | 5 | Bombay |

III) Publications:

- i) Dr. M. A. Shahi -
"Defence Expenditure and the International Debt"
Forthcoming Asian Economic Review.
 - ii) Dr. A. R. Padoshi -
Published "Agricultural Credit in Goa in the Recent Past :
An Analysis". Published in Rural Development in India -
Issues and analysis. Anmol Publication, New Delhi.
2. "Structural Changes in the Indian Economy - Effects and Remedies" at 14th Annual Conference of Marathi Arthashastra Parishad at Solapur, 1990 published in the Conference.

S. M. Noronha

Published "An Abstract on 'Child Labour' in the Conference Volume of the Indian Journal of Labour ,Economics, - Oct-Dec. 1991. Vol.'33-No. 4.

VI) Visitors to the Department:

Prof. T. K. Meti, Karnataka University.

VII) Participation in Seminars, Conferences and Workshops

M. A. Shahi

1. Seminar organised by Centre for Latin American Studies, in Feb. 25-26, 1991; presented a paper on 'Monetary Expansion and Inflation in Latin America'.
2. Seminar on Post-graduate Education in Goa, Past, Present and Future, July, 23, 1990.

A. R. Padoshi

1. "Poverty in India's agricultural Sector - Causes and Remedies" at Western Regional Seminar on Agricultural Policy at Anand, January, 1991.
2. "Role of Village Industries in eradicating poverty and unemployment" at seminar organised by Department of Commerce, Goa University, March, 1991.

S. M. Noronha

1. Seminar on 'Post-graduate Education in Goa, Past, Present and Future' July, 23rd 1990 at Goa University.

2 Seminar organised by the Centre for Latin American Studies (Economic, Social and Historical)
Feb. 25-26th 1991 at Goa University

3. Wrote a paper on 'Child Labour for 32nd Annual Conference of the Indian Society of Labour Economics held at Bhubaneswar, Orissa during 23-25th Dec. 1990 under the presidency of Dr. Nanjundappa

VIII) Other Activities

M. A. Shahi

Radio talk on 'The gulf War and the World Economy' at AIR., Panaji on 11th April, 1991.

A. R. Padoshi

Evaluated Ph.D. thesis, Marathwada University. Evaluated two M. Phil. theses, Shivaji University.

S. M. Noronha

Submitted her thesis to the University of Bombay on 2nd March, 1991.

1.8 DEPARTMENT OF HISTORY

I) GENERAL

a) The Department of History conducted three Refresher Courses in History at the Academic Staff College of University on the following schedule.

- | | | | |
|----|----------|----|----------|
| 1. | 26-07-90 | to | 14-08-90 |
| 2. | 08-10-90 | to | 27-10-90 |
| 3. | 07-01-91 | to | 25-01-91 |

Prof. B. S. shastry, Head of the Department was the Course Co-ordinator of the Refresher Courses. The thrust area of these programme was Recent Trends, Methods & Techniques in Historical Thinking and Writings. These three programmes were attended by senior History Lecturers from the Universities of Maharashtra, Gujarat & other states. Renowned scholars in History & Archaeology were invited to conduct lectures-cum-discussions for the participants.

b) The Department organised a one-day seminar programme of the ICSSR (WRC) on 3-9-90. It was on "Inter-Disciplinary Approach to Social Science Research." Prof. B. Sheik au, then Vice-Chancellor of Goa University presided, Dr. S. T. Sawant (Director, IC S S R, WRC) explained the programme of the IC SS R. Dr. Willie R. de Silva spoke on "Inter-Disciplinary Approach to Social Science Research". About 30 staff members, from the University and affiliated colleges, attended this seminar.

c) The Department of History organised jointly with the Directorate of Archives, Archaeology and Museum, Govt. of Goa on 19-20 Feb., 1991. The theme of the seminar was "Religious Traditions in goa Through the Ages". There was a symposium on 'India and Angola'.

d) The IVth Prof. D. D. Kosambi Memorial Lecture which was to be held in March, 1991 could not be organised due to the inconvenience of the invited speaker to reach on the particular day.

However, now this lecture will take place on 26th September, 1991. Prof. V. Suryanarayanan, Director, Centre of South & South-East Asian Studies, University of Madras will be delivering the lecture on "Indo-Sri Lanka Relations".

II) Teaching and Research Staff in the Department

- (a) Dr. B. S. Shastry, M. A. Ph.D.
Professor and Head.
- (b) Dr. K. M. Mathew, M.A. Ph.d.
Reader.
- (c) **Dr. Pratima P. Kamat, M.A. Ph.D.**
Lecturer.
- (d) **Dr. N. Shyam Bhat, M.A. Ph.D.**
Lecturer.
- (e) Mr. Xavier Martins, M.A.
Research Assistant.

III) Contributory Teachers

Dr. Willim D'Silva Reader, Department of Sociology, Goa University delivered a lecture on "The Role of Church in Modern Latin American Society" on 16th March, 1991.

IV) Visiting Teachers

Prof. K. N. Pannikar, National Lecturer from Jawaharlal Nehru University, New Delhi visited the Department and delivered two lectures on 'Aspects of the Intellectual and Cultural History of Colonial India' (10-1-91) and "Religious Uprising with Special Reference to Malabar" (11-1-91).

V) Details of Research Students (Ph.D. partly by Research)

| Name of the Teacher (Research Guide) | No. of students | |
|--|-----------------|-----------|
| | Full Time | Part Time |
| 1. Dr. B. s. Shastry (H.O.D.) | 2 | |
| 2. Dr. K. M Mathew (Reader) | 3 | |
| M.A. (Partly by Research in lieu of two Electives) | | |
| 1. Dr. Pratima P. Kamat (Lecturer) | 2 | |
| 2. Dr. N. Shyam Bhat (Lecturer) | 1 | |

VI) Research Project

- a) **Dr. B. S. Shastry** (jointly with Dr. T.S.S. Rao, Head, Department of Marine Science and Bio-Technology), with a grant of Rs. 50,000/- from the Indian Council of Historical Research, New Delhi. The theme of the project is "Maritime Policies and the State of the Knowledge of the Seas in Portuguese Goa, 15-10-1961". The grant is for two years, namely 1989-1991. Mr. Xavier Martins is associated with the project as Research Assistant. The work is progressing.

- b) Dr. N. Shyam Bhat is working on a project entitled "Judiciary and Police in Early Colonial South Kanara.1799-1862". This is financed by the, I.C.H.R., New Delhi. He visited Tamil Nadu State Archives, Madras, from 18.10.90 to 12.11.90, to collect original sources for this research work. The work is progressing.

VII) Visits Abroad:

Dr. Pratima P. Kamat participated in the Tenth International Economic History Congress held at the Katholik University, Leuven, Belgium, from 20th-24th August, 1990 and presented a research paper entitled, Agrarian Relations in Portuguese Goa, 1946-1961".

VIII) Participation in seminars, Conference, Workshops, etc.

(a) Dr. B. S. Shastry:

1. Participated in a seminar on "Post-graduate Education in Goa 1965-1990" organised by Goa University on 23-7-90. Presented a paper on "The History of University Education in Goa: 1965-1990".
2. Participated in a seminar on "Historians and Historiography on south India" organised by the Dept. of Studies in History, Kuvempu University Shimoga, 24-25th January, 1991. Presented a paper on "Contributions of G. M. Moraes, B. Sheik Ali and G. S. Dikshit to the study of South Indian History".
3. Delivered two lectures on "Indian History and Culture", 27-1-1991, at the orientation programme for foreign students organised at the Academic Staff College, Goa University.
4. Presented a paper on "The Church and Slavery in Portuguese Goa" in the fifth seminar on local history "Religious Traditions in Goa Through the Ages" and symposium on "India and Angola", 10-20 February, 1991. The seminar was jointly organised by the Department of History, Goa University and the Directorate of Archives, Archeaology and Museum, Goa.
5. Participated in a National Seminar on "Perceptions on India's Struggle for Freedom" organised by the Dept. of studies in History, Mangalore University, 1-3 March, 1991. Presented a paper on "National Consciousness in Goa". Linkages with the Rest of Indian Subcontinent". The seminar was sponsored by the I.C.H.R., New Delhi.
6. Presented a paper on "Studies in the History of the Portuguese in South India since 1961. At a seminar on "Historiography of South India", Karnataka University, Dharwad, 8-10th March, 1991.
7. Organised a Workshop at the Heras Institute, Bombay, and presented two papers:
 - (1) "The Portuguese in Coastal Karnataka: 1498-1799" and
 - (2) "Adil Shahis of Bijapur: 1498-1686.

(b) Dr. K. M. Mathew:

1. Attended a seminar on "Post-graduate Education in Goa 1965-1990" organised by Goa University on 23-7-1990.
2. Participated in the Vth Seminar on History of Goa "Religious Traditions in goa Through the Ages" and a symposium on 'India and Angola 19-20 Feb., 1991, organised jointly by the Dept. of History, Goa University and the Directorate of Archives, Archaeology and Museum, Goa assisted in

organising the seminar. Presented a paper titled "Deities Mentioned in the Sahyadri Khand and the Historicity of the Data" alongwith Shri V. R. Mitragotri.

3. **Attended the South Indian History Congress held at Calicut Univ. from 1st-3rd Feb., 1991. Elected to the Executive Body of the South Indian History Congress.**
4. **Resource person at three Refresher Courses in History, conducted at Academic Staff College.**

(C) **Dr. Pratima P. Kamat**

1. **Attended seminar to commemorate "Twenty five years of Post-graduate Teaching in goa, 1965-1990, held at Goa University on 23-7-1990.**
2. **Attended the Tenth International Economic History Congress held at leuven, Belgium from 20-24 August, 1990. Presented a paper "Agrarian Relations in Portuguese Goa, 1946-1961".**
3. **Attended a seminar on Nation, History and Literature jointly organised by the Sahitya Akademi and the Goa Konkani Akademy at the Institute Menezes Branganza Hall, Panaji, from 5th to 6th December, 1990.**
4. **Attended the International Seminar on the Maritime Encounter of East and West during 15th-19th Century A.D. organised by UNESCO, INTACH and the Archaeological Survey of India, at Hotel Fort Aguada Resort, 6-8th December, 1990.**
5. **Attended seminar of the Internaffiral Goan Youth Convention held in December, 1990.**
6. **Attended South Indian History Congress held at the University of Calicut from 1st-3rd February 1991. Presented paper: "The Revolt of Dipu Rane in Goa 1852-1855".**
7. **The Local History (Goa) seminar jointly organised by the Dept. of History, Goa University and the Directorate of Archives, Archeology and Museum, Govt. of Goa, held at Goa University from 19th-20th February, 1991. Presented paper "Institutions of Christian Charity and the Women in Goa, 1510-1835; some Aspects".**
8. **Attended the second seminar of the centre for Latin American Studies held at the Goa University from 25-26th February, 1991. Paper presented: "India, latin America Decolonisation: the case of the Liberation of Goa."**

(d) **Dr. N. Shyam Bhat:**

- 1 **Attended a seminar on "Post-graduate Education in Goa 1965-1990". Organised by Goa University on 23-7-90.**
2. **Participated in a National seminar on "Perception on India's Struggle for Freedom" organised by the Dept. of Studies in History, Mangalore Univeirsity, 1-3 March 1991. It was sponsored by the I.C.H.R., New Delhi.**
3. **Participated in the fifth seminar on History of Goa "Religious Traditions in Goa Through the Ages" and symposium on "India and Angola" 19-20 February, 1991 organised jointly by the Department of History, Goa University and Directorate of Archives, Archeology and Museum, Goa helped in organising this seminar.**

IX) Publications:

(a) Dr. B.S. Shastry:

1. Socio-Economic Aspects of Portuguese Colonisation in Goa in the 19th and 20th Centuries (ed.), Yermal Offset Printers, Belgaum, 1990.

(b) Dr. Pratima P. Kamat:

1. "The position of *the Married* Women in Goa as reflected in *the* family laws, 1871-1961" in Socio-Economic Aspects of Portuguese Colonialism in goa in the 19th and 20th Centuries (ed) by B. S. Shastry, Yermal Offset Printers, 1990. pp. 119-134, Belgaum.
2. "The Swadeshi Ideology of Fr. Alwares some Reflections". International Goan Youth Convention Souvenir, Panaji, 1990.
3. "When Goa Awakened", The Times of India Sunday Review, Bombay 17-6-1990. (with Sharmila Kamat).
4. "Remembering 18th June, 1946" The Gomantak Times, Panaji, 18-6-1990 (with Sharmila Kamat).

X) Co-curricular Activities

(a) Dr. B. S. Shastry:

Elected Chairman of the newly formed Goa University Teachers Association (GUTA)

(b) Dr. K. M. Mathew:

Chief Promoter of Goa University Staff Co-operative Housing Society.

1.9 DEPARTMENT OF POLITICAL SCIENCE

I) Teaching Staff

- | | | |
|----|--|--------------------------------------|
| 1. | Dr. Adi H. Doctor M.A., Ph.D. | Professor and Head of the Department |
| 2. | Dr. M. J. Audi, M.A.; Ph.D. | Reader |
| 3. | Dr. Peter R. Desouza, M.Sc; M.Phil; D.Phil. | Reader |
| 4. | Dr. Shantishree Pandit M.A.; M.Phil; Ph.D. | Lecturer |

II) Visitors to the Department

- (a) Prof. John Dunn, Professor of Political Theory at the University of Cambridge, London, visited the Department on 15th December, 1990 and addressed faculty and students on "Political Obligation".

Vice-Chancellor Dr. Dubhashi presided.

- (b) Dr. Nawaz Mody, Dean of the Faculty of Arts, University of Bombay, gave six lectures as Visiting Teacher, to the M.A. students on Ancient Indian Political Thought, September, 1990.
- (c) Dr. K. P. Mishra, School of International Studies, J. N. University, New Delhi, visited the Department on 22nd February, 1991 and gave a lecture on "The Gulf Crisis".
- (d) Prof. Randhir Singh, Retired Professor of Political Science, Delhi University, met the faculty and students and spoke on Communalism in India on 21st February, 1991.

III) Details of Research Students registered in the Dept.

| Name of Research Guide | Number of Ph.D. students (Part Time) |
|------------------------|---|
| 1. Prof. Adi Doctor | 5 |
| 2. Dr. M. J. Audi | 2 |

Mohan Sangodkar, Ph.D. student working under the guidance of Prof. Adi Doctor, obtained his Ph.D. degree from the Univeristy of Bombay, in October, 1990.

IV) Research Projects

1. The Department, under the general supervision of Prof. Adi Doctor has undertaken a project on the Goan Polity. The Project in the form of a Monograph will contain contributions from Prof. Adi Doctor, Dr. M. J. Audi, Dr. Peter de Souza, Dr. Mohan Sangodkar, Dr. shantishree Pandit, Dr. Tanaji halarnakar and Dr. Bibial Dias.
2. Dr. M. J. Audi has undertaken a research project on the causes and consequences of Corruption in India.
3. Dr. Shantishree Pandit and Dr. Mohan Sangodkar have been sanctioned Rs. 15,000/- by the U.G.C. under the Scheme of Minor Reseach Projects for working on the Politics of the Medium of Instruction.
4. Dr. shantishree Pandit and Dr. Mohan Sangodkar have applied to the U.G.C. for sanctioning a Major Research Project on Language, Religion and Politics in India.

V) Participation in seminars, Conferences, Workshops, etc.

- 1 Prof. Adi Doctor:
 1. As resource person gave two lectures to participants attending the workshop on International Politics organised by the University of Bombay (Dept of Civics & Politics) under the University Leadership Project of the U.G.C., 3rd and 4th Sept. 1991.
 2. As resource person conducted one lecture-cum-discussion session "on State, Power and Authority" for College Teachers of Karnataka State Under the U.G.C. sponsored University Leadership Programme organised by the Karnataka University, Dharwad, 15th November, 1990.

3. Organised a Symposium (in Collaboration with the ASC of GU) on "India's Defence & Security Problems" on 8.2.91. spoke on "Indian Ocean Policy".
4. Participated in the Seminar on India and Latin-America Relations organised by Centre for Latin American Studies Goa University, 25-26 Feb. 1991. Chaired the last Business Session.
5. Chaired the session on "The Indian Constitution and Democracy" at the Conference organised by the Progressive Law Association of India, New Delhi, at Mahadevrao Salgaocar Law College, Panaji, Goa, 2nd March, 1991.
6. Presented a paper on "Nehru's Endeavours to Build a Modern Polity" at the National Seminar on "Jawaharlal Nehru and the Dynamics of Indian Democracy", sponsored by the U.G.C. and organised by the Political Science Dept. of Karnataka University, Dharwad, 25-27 March, 1991.
7. Presented a paper on "presidential System of India" at the symposium on "should India adopt the Presidential form of Government" organised by the Institute of Public Administration, Pune Branch, Pune, on 13th May, 1991.
8. Delivered the T. B. Cunha Centenary Celebration Lecture on "Indian Ocean Politics" (organised by the T. B. Cunha Trust), Panaji, 4th April, 1991.
9. As resource person conducted courses on political theory for U.G.C. sponsored Refresher Course organised by the University of Mysore, 29-30, May 1991.

Dr. M. J. Audi

1. Presented a paper "Contours of Corruption" at seminar organised by the YMCAs of India and Asia Alliance of the YMCAs at Pilar, Goa, June 1990.
2. Gave a lecture on "Objectives of India's Foreign Policy" under the auspices of the Dept. of Tourism, Govt. of India at Panaji, Aug. 1990.
3. Presented a paper on "Reflections on Mandal Commissions Report" at seminar organised by GVM's College of Commerce & Economics, Ponda, Goa, October 1990.
4. Presented paper on "Open Competition Based on Merit" at Seminar on Reservations at Kare College of Law, Margao, Goa, October 1990.
5. U.N. and World Peace, address on UNO Day, at Lions Club of Chicalim, Goa, October 1990.
6. Participated in Seminar on "Advent of Portuguese and Goa's Struggle for Freedom", organised by College of Arts and Commerce, Cuncolim, Goa, Dec. 1990.
7. Presented a paper on "Ambedkar's Struggle for Social Justice Reflections" at National Seminar on Ambedkar and Modern India, University of Mysore, Feb. 1991.
8. Presented a paper on "The Indian Constitution and Democracy" at the Conference organised by the Progressive Law Association of India, at Panaji, Goa, March, 1991.

Dr. Peter R. De Souza

1. Presented a paper on "Democracy and National Integration Political Rationalities" at the National

Seminar on "Ethnicity and National Integration" organised by the Institute of Studies Varanasi, 15-17 March, 1991.

2. Presented a paper on "The Judge and Judgement" at the Indo-German on "judging another Culture" organised by Max Muller Bhawan and Indian International Centre, New Delh, 19-20 March, 1991.
2. Gave lectures on "The Idea of Democroacy" at Kuvempu University, Karnataka State, 21-22 January, 1991.

Dr. M. Sangodkai

1. Attended the Refresher Course in Political Science organised by the Academic Staff College of Goa University, 20.8.90 to 8.9.90.
2. Delivered subject upgradation lectures in Public Administration to participants attending General Orientation Course conducted by the Academic Staff College of Goa University.

Dr. Shantishree Pandit

1. Visiting Lecturer to the Dept. of Political Science, Presidency College, Madras, 23-27, Oct. 1990.
2. Gave a lecture on "The Ethnic Crisis in Sri Lanka at the Gokhale Institute, Pune, 5th Nov. 90.
3. Delivered' lectures on Political Development at the Centre for Research on A New International Economic Order, at Madras, 25-28, April, 1991.
4. Presented a paper on "**M.A.** Ayyanagar As Speaker of Loksabha" at the seminar on "Anan-tasaynam Ayyangar" organised by the Lok sabha Secretariat, Madras, 17th May, 1991.

VI) Publications

Dr. Adi Doctor

1. "Dadabhai's Consitutionalism and Its Relevance to Modern India", New Quest/Vol. No. 81, Pune, Pune 1990 (released in Sept. 1990).
2. "India's Indian Ocean Policy", Indian Journal Science, Madras, Vol. L1 No. 3 July-September, 1990.
3. "Phule's Strategy for Creating A New Identity For The Downtrodden", Journal of Maharashtra Political Science Association, Vol. 3, September, 1990.
4. "A Critique of JP's Polity in book Political Thinkers of Modern India. Volume 8, edited by Verinder Deep Publications, New Delhi, December, 1990.
5. "ambedkar's Struggle for the Emancipation of Scheduled Caste: Birth of New Militant Ideology" in "Babasaheb Ambedkar Gaurav Granth" published by the Directorate of Social Weliar, Govern-metn of Goa, April, 1991.

Dr. M. J. Audi:

- A) "The Concept of Equality and its Operations in India **Today**" Journal of ConsitUtional **and**

Parliamentary Studies, New Delhi, Vol. XXII Nos. 1-4. Jan-Dec. 1988 (Volume released in 1991).

B) Articles published in Newspapers.

1. Slaves of English, Gomantak times, 23-6-90.
2. University Autonomy, Gomantak Times, 23-7-90.
3. English Some Superstitions, Gomantak Times, 1.9.90.
4. Rise of New Caste in India, Gomantak Times, 5.10.90.
5. Rise and Fall of V. P. Singh, Navhind Times, 31-12-90.
6. Politics of Article 356, Navhind Times, 6-1-1991.
7. Open Competition Based on Merit, Navhind Times, 11.2.91
8. State of the Nation, Navhind Times, 7-4-1991.
9. Ambedkar and Utouchables, Navhind Times, 13.4.1991.

Dr. Peter De Souza

1. Ethics and Politics, Radical Humanist New Delhi, Vol. 54 No. 11. Feb. 1991.

Dr. Shantishree Pandit

1. "Mr. Speaker Sir" In "The M. A. Ayyangar Centenary Volume, Lok Sabha Secretariat, new Delhi, 1990-91.
2. "The Speaker of the Lok Sabha", Journal of Parliamentary Information, New Delhi, April '91.
3. "Indo-Sri Lanka Accord" New Swatantra Times, Hyderabad May, 1991.
4. Prepared Course Material on "Peace and Development" Open University, New Delhi, 1991.

Articles Published in Newspapers

1. "Nehru, the Prime-Minister", News Today, Madras, 26-5-91.
2. "Rajiv Gandhi - A Tribute", News Today Madras, 31.5.91.
3. "The Gulf Crisis", Gomantak Times, Goa 2.2.91 and 4.2.91.

VII) Co-Curricular and Other Activities

Prof. Adi Doctor

1. Gave a talk on All India Radio Panaji on "The Gandhian Concept of Village Republic", 31st January 1991.
2. Course Co-ordinator for Refresher Courses in Political Science conducted by the Academic Staff College of Goa University during 1990-91.
3. Member of the Editorial Committee of the "ICSSR Journal of Abstracts and Reviews-Political Science", New Delhi.
4. Conducted coaching for IAS students on current International Events on 20-21 May 1991.
5. Member of Advisory Committee of Government College of Arts and Science, Sanquelim, Goa,

Member of Academic Council of Goa University; Served as member of various University Committees in Capacity of Dean of Faculty and HOD.

Dr. M. J. Audi

1. Gave talks on All India Radio, Panaji on "UNO and World Peace" (Konkani) October 1990 and on "Challenges Before the Young State" May 1991.
2. Resource person for Academic Staff College of Goa University-General Orientation and Refresher Courses in Political Science.
3. Member of Local Managing Committee of College of Arts, Cuncolim, Goa.
4. Member of Ambedkar Janmashatabdi Samaroha Samiti.

Dr. Peer De Souza

1. Member of Board of Studies in Education of Nirmala Institute of Education, Panaji.
2. Conducted a Survey on "Lok Sabha 1991 pre-Election Poll" for Herald/Sonaparant news-papers.
3. Was referee for following ICSSR activities (a) ICSSR General fellowship (b) ICSSR Journal and (c) ICSSR publications Subsidy Scheme.

Dr. M. Sangodkar

1. Resource person for up-gradation Component of General Orientation Course of ASC of Goa University.

Dr. Shantishree

1. Co-ordinator, Youth forum Gandhian Studies, Khadi Gramodyong Bhavan, Madras.
2. Member, National Advisory Committee, Dept. of Youth Affairs & Sports, Govt. of India.
3. Member, NSS National Planning Committee, India.

1.10 DEPARTMENT OF SOCIOLOGY

) Teaching Staff:

- | | |
|---|-----------------|
| 1. Shri S. R. Phal M.A. | Reader and Head |
| 2. Dr. W. de Silva M.A. , Ph.D. | Reader |
| 3. Shri Alito Siqueira MA. | Lecturer |
| 4. Dr. S. Hegde M.A. | Lecturer |

5. Dr. M. Singh Lecturer
M.Sc. (Agri), Ph.D.

II) Visiting Teachers:

Dr. (Mrs.) Ratna Naidu, Professor, Department of Sociology, Director, Academic Staff College and Dean In-Charge, Sarojini Naidu School of Performing Arts, Fine Arts & Communication, University of Hyderabad, visited the Department under the U.G.C.'s National Professorship and delivered a lecture on 'Women's Problem' on 13th December 1990.

III) Participation in seminars, *Conferences, Workshops*

etc.: 1. Shri. S. R. Phal

Attended a 3-day Workshop organised by the Regional Study Centre of Indira Gandhi National Open University at Bangalore on 18th, 19th and 20th March 1991 for the Counsellors for the course "Social Processes and Group Behaviour" of the Social Diploma in Management of the Indira Gandhi National Open University.

IV) Contribution of the Department to the University Activities:

1. Shri S. R. Phal

Delivered lectures on "Women's Studies" in the Orientation course for teachers conducted by the Academic Staff College of Goa University.

Any other details:

1. Shri S. R. Phal

Delivered 3 lectures on "Suicide Theories, Causes and Management" in the Refresher Course in Sociology for College and University teachers of Sociology, conducted by the Academic Staff College of the University of Mysore, Mysore on January 31 and February 1, 1991.

2. Delivered 3 lectures on "Research Design" to the Post-graduate students and staff of Sociology of Post-graduate Centre of Karnataka University at Belgaum under the Special Guest Lecture Programme of Karnataka University on February 12th and 13th 1991.

3. Worked as a counsellor of the Indira Gandhi National Open University at Margao Study Centre for Sociology in the Special Diploma in Management and **B.A.**

V) Research Students:

| Name of the Research Guide | No. of Ph.D. students | |
|----------------------------|-----------------------|-----------|
| | Full Time | Part Time |
| 1. Shri S. R. Phal | 1 | 3 |
| 2. Dr. W. de Silva | 2 | 1 |

1.11 DEPARTMENT OF PHILOSOPHY

I) Teaching and Research Staff in the Department

1. Teaching Staff

Dr. R. A. Sinari
M.A. (Phil), Ph.D. Professor and Head

Dr. A. V. Afonso
M.A.(Phil), Ph.D. Reader

Dr. U. A. Vinay Kumar
M.A.(Phil.), Ph.D. Lecturer

Dr. A. Raghu Rama Raju
M.A.(Phil.), Ph.D. Lecturer

2. Research Staff

Miss Menezes Maria Norma
Junior Research Fellow, I.C.P.R.,
New Delhi, since 15.6.1991.

II) Contributory Teachers

Prof. R. N. Karani, Wilson College, Bombay gave a series of lectures in "Symbolic Logic" to M.A. (Philosophy) students.

III) Visitors to the Department

Prof. John Hick, one of the renowned philosophers of religion and presently Danforth Professor and Religion, Claremont Graduate School, U.S.A. was attached to the Department of Philosophy for 2 weeks in December, 1990.

Besides interacting with the students and the faculty of Philosophy in the University and from colleges, Prof. Hick lectured on "A Pluralistic Model for Understanding Religion" and "The Nature of Religious Experience". He also gave a keynote address at a seminar on "The self in Indian Religions" organised by the department in December 1990.

VI) Participation in Seminars, Conferences, etc.

Dr. R. A. Sinari

- i. Was invited by the Department of Philosophy, Delhi University to give six lectures in the areas of "Phenomenology, Hermeneutics, Structuralism and Post-Structuralism" to its postgraduate students and faculty in February 1991 under the UGC Special Assistance Programme;
- ii. Participated in a seminar on "Relation" at Poona University and gave a lecture on "The Concept of Relation in Phenomenology" in March, 1991;
- iii. Was invited to give a lecture on "Value Commitment in Judiciary" at a seminar held by Indian Law Association in Margao, Goa in February, 1991.

V) Publications

Dr. R. A. Sinari

Book:

RAMAKANT SINARI (Ed.) : Concept of Man in Philosophy Indian Institute of Advanced Study, Shimla, 1991z

Papers:

- i. **"The Wordly and the Transcendental in Indian Philosophy"** Indian Philosophical systems, the Ramakrishna Mission Institute of Culture, Calcutta, 1990.
- ii. "The Noetic and the Noematic" in the Philosophy of J. N. Mohanty, Indian Council of Philosophical Research, New Delhi, **1991**.

Dr. A. Raghu Rama Raju

Review of A. L. Basham's The Origin and Development of Classical Hinduism in Freedom First (April-May, 1991).

2.1 DEPARTMENT OF MATHEMATICS

Teaching Staff:

- | | | |
|----|---|--------------------|
| 1. | Dr. S. G. Deo, M.Sc; Ph.D. | Professor and Head |
| 2. | Dr. Y. S. Prahalad, M.Sc; Ph.D. | Reader |
| 3. | Dr. M. T. Nair, M.Sc; Ph.D. | Reader |
| 4. | Shri A. Banerjee, M.Sc. | Lecturer |
| 5. | Dr. A. J. Jayanthan, M.Sc; M.Phil; Ph.D. | Lecturer |
| 6. | Dr. M. Ganesh, M.Sc; Ph.D. | Lecturer |
| 7. | Shri Y. S. Valaulikar, M.Sc; M.Phil. | Lecturer |

Visiting Teachers:

1. Dr. S. P. Pethe,
M.Sc; Ph.D.

III) Details of Research Students:

| Name of the Guide | No. of Students | | |
|--------------------------|---------------------|--------------------|-----------|
| | M.Phil Full Time | Ph.D. Full Time | Part Time |
| 1. Prof. S. G. Deo | 2 | 1 | |
| 2. Dr. Y. S.' Prahalad | 1 | | |
| 3. Dr. M. T. Nair | 1 | 1 | |
| 4. Dr. S. P. Pethe | 2 | | |

IV) Details of the students who have completed their Research:

1. Smt. K. N. Jayashree submitted Ph.D. Thesis entitled 'Generalised Theory of Differential Equation' under the guidance of Prof. S. G. Deo, **and** defended the thesis on February 25, 1991.
2. Shri Y. S. Valaulikar submitted M.Phil. Thesis entitled 'On Delay Differential Equation of the type $X'(t) = ax(t) + bx(t)^*$ under the guidance of Prof. S. G. Deo, and the degree has been awarded.
3. Kum. Ana de P. Andrade submitted M.Phil. thesis entitled 'Solution of Linear Non-Homogeneous Difference equation in terms of Generalised Fibonacci Sequences' under the guidance of Dr. S. P. Pethe, and the thesis has been approved for the award of the degree.
4. Shri Sebastian Mesquitta submitted M.Phil. thesis entitled 'Invariant Probability Measures for Geostrophic Flows' under the guidance of D.r Y. S. Prahalad.
5. Shri Lucas Miranda submitted M.Phil. thesis entitled 'On Projection Methods for Operator Equations of the Second Kind' under the guidance of Dr. M. T. Nair, and the thesis has been approved for the award of the degree.

V) Visitors to the Department:

Dr. Rama Mohan Rao, Professor of Mathematics, I.I.T., Kanpur visited the Department of Mathematics and delivered a talk in 'Vector Liapunov Functions' on February 25, 1991.

VI) Visits Abroad:

Dr. M. Ganesh has gone to the University of Bath, U.K. under the Common Wealth Fellowship Programme.

VII) Visits by the Teachers:

1. **Prof. S. G. Deo** gave a series of lectures on Mathematics to the participants in the Academic Staff Colleges of Karnataka University, Dharwad and Goa University. ⁶.
2. **Dr. M. T. Nair** visited the Tata Institute of Fundamental Research, Bangalore Centre under the MSC-TIER Short Term Visitors Programme during April 30 to May 25, 1991. He delivered a **colloquium talk on 'Projection Methods for Integral Equations** on May 24, 1991 at the TIFR Centre.

VIII) Academic Activities of the Department:

1. The Department of Mathematics organised an International Conference on the 'Theory of Differ-

ential Equations and Applications to Oceanography' at the Goa University during December 17-21, 1990, with Prof. S. G. Deo as Secretary, Dr. Prahalad as Joint Secretary and all the faculty members and Research Fellows as members of the organising committee.

There were about 90 participants (Plenary Speakers, Invited Speakers and Contributory Speakers) including 10 Foreign Delegates.

The Conference was inaugurated by Mrs. Sashikala Kakodkar the Former Chief Minister and Education Minister, and the function was presided by Dr. P. R. Dubhashi, the Vice-Chancellor of Goa University.

2. The following faculty members gave talks in Departmental Seminars in march-April, 1991 :-

- | | | |
|-------|-----------------|---|
| (i) | Dr. M. T. Nair | What is Generalized Inverse of Operators? |
| (ii) | Dr. S. P. Pethe | Fibonacci Sequences |
| (iii) | Prof. S. G. Deo | Mathematics of Conflicts |

3. A Refresher course in Mathematics for college teachers of Goa was organised by the Staff College with Prof. S. G. Deo as the Co-ordinator during May 20-June 10, 1991.

The following among the Resource Persons :-

- | | | |
|-------|------------------------|--|
| (i) | Prof. S. G. Deo | Differential Equations (3 Sessions) |
| (ii) | Prof. Y. S. Prahalad : | Functional analysis (6 Sessions) |
| (iii) | Dr. M. T. Nair | Numerical Integration (4 Sessions) |
| (iv) | Dr. A. J. Jayanthan | Some Topics in Number Theory (1 Session) |

IX) Participation in Seminars, Conferences, Workshops, etc.

1. The following members of the faculty gave talks at the International Conference on Theory of Differential Equations and Applications to Oceanography organised by the Department of Mathematics, Goa, University during December, 17-21, 1991.

| Name | Title of the Talk |
|-----------------------------|---|
| (i) Dr. Y. S. Prahalad | Statistical Stationary States of Two Layer Geostrophic Flows. |
| (ii) Dr. M. T. Nair | On Globally convergent Methods for Integral Equations of <i>the</i> Second Kind. |
| (iii) Shri A. Banerjee | Linear Connections and Invariant Tensor Fields. |
| (iv) Dr. M. Ganesh | Numerical Solvability of a Nonlinear Boundary Value Problem by Boundary Integral Equation Method. |
| (v) Shri Y. S. Valaulikar : | On Neutral Differential Equation. |

2. The following Research fellow also presented research papers at the above mentioned International Conference:

- (i) Smt. K. N. Jayasree : ~~Nonlinear problems~~
involving piecewise constant arguments.
- (ii) Mr.S. B. Mesquita : Quasi-Geostropic Vortex motion in Closed basin.
3. Shri Y. S. Valaulikar attended an instructional course of 'Partial Differential Equation' at the 1.1 .Sc., Bangalore. The course was sponsored by national Board for Higher Mathematics. The duration of the course was for 15 days from May 1-15, 1991.
4. Shri Y. S. valaulikar attended the Refresher Course in Mathematics organised by the Staff College of Goa University, during May 20-June 10, 1991.

X) Publications:

1. Prof. S. G. Deo : On volterra Steiltjes Integral Equations, Journal of Applied Mathematics and Stochastic Analysis, Volume 3, Number 3, 1990 (An International Quarterly Journal Published In U.S.A.)
2. Dr. M. T. Nair : (i) Eigen elements of Perturbed Operators (With B. V. Limaye) J. Austral. Math. Soc. (Ser. A) 49 (1990) 138-148.
(ii) Computable Error Estimates for Newton's Iterations for Refining Invariant Sub-spaces. Indian J. Pure & Appl. Math. 21(12) (1990) 1049-1054.

XI) Other Details:

Prof. S. G. Deo visited the Satya Sai Institute of Higher Learning on August 6, 1990 to give a lecture on Mathematics. He also evaluated Ph.D. Thesis of Mr. Dyan Bhaskar on Mixed Differential Equations and M.Sc. dissertation of Mr. Surya narayan Rao of the same institute.

Dr. M. T. Nair evaluated the M.Phil. Thesis entitled 'The OR-Method for Finding Eigen Values' of Ms. Arundhati Ranade, Poona University.

2.2 DEPARTMENT OF PHYSICS

) Teaching and Research Staff in the department

1. **R. B. Prabhu**, M.Sc., Ph.D.
Professor & Head.
2. **J. A. E. Desa**, M.Sc., Ph.D.
Redaer.
3. **P. R. Sarode**, M.Sc., Ph.D.
Reader.
4. **G. R. Bhat**, M.Sc., Ph.D.
Lecturer.
5. **Uma Subramanian**, M.Sc., Ph.D.
Lecturer.

6. R. B. Tangsali, M.Sc., Ph.D.
Lecturer.
7. S. D. Deshpande, M.Sc., Ph.D.
Lecturer.
8. C. Mande, M.Sc., Ph.D., D.Sc.
Consultant. 1,

II) Details of Research Students (Registered)

M.Phil. & Ph.D.

| Name of Research Guide | No. of students (M.Phil.) | | No. of students (Ph.D.) | |
|------------------------|------------------------------|--------------|----------------------------|--------------|
| | Part time | Full time | Part time | Full time |
| R. B. Prabhu | 4 | | 1 | |
| P. R. Sarode | 1 | | 2 | |
| J. A. E. Desa | 2 | | | |
| C. Mande | | | 2 | |

III) Research Project

1. R. B. Prabhu and P. R. Sarode have taken a project on "Neutron Scattering Study of Rare Earth Based Kondo Systems" sponsored by the Inter-University Consortium and department of Atomic Energy, India.
2. J. A. E. Desa has taken a project on "Structural Study of Glasses using small angle Neutron and X-ray Scattering" sponsored by the Inter-University Consortium and Department of Atomic Energy.

IV) Visitors to the Department

- (a) Prof. B. G. Gokhale, Physics Department, Lucknow University delivered a lecture and collaborated with the staff members of the X-ray research laboratory.
- (b) Prof. P. N. Butcher, Physics Department, University of Warwick, England, delivered a lecture and had discussions with the staff members of the Physics Department.
- (c) Dr. J. M. Gruere, Director of Alliance Francaise, Altinho, Panaji, arranged a scientific Exhibition for Physics students.
- (d) Dr. Nicolaw Pereira, Principal, st. Xavier's College, Mapusa, Goa, delivered a lecture.
- (e) Prof. D. B. Wagh, Ex-Director, Centre of Post-graduate Instruction & Research, Panaji. ,

V) Participation in Seminars, Conferences, etc.

Prof. R. B. Prabhu and Dr. J. A. E. Desa attended the International Conference on Neutron Scattering at BARC, Trombay, Bombay, (sponsored by the Department of Atomic Energy, India) in January, 1991.

VI) Publications

1. R. B. Prabhu & G. R. Bhat - spin Fluctuations in heavy Fermion Systems, Proceedings of the International Conference on Neutron Scattering, BARC, Trombay, 1991.
2. J. A. E. Desa - Rare Earth Elements in the Structures of Ferromanganese Nodules from the Indian Ocean, International Conference on Neutron Scattering, BARC, Trombay, 1991. (with A. B. Valansankar, G. Gangadharan, D. R. Pant, S. K. Paranipe and P. S. R. Krishna).
3. P. R. Sarode - Electronics Structure of Disordered Solids by EXAFS, Nuclear Physics & Solid State Physics Symposium DAE, India, December, 1990.
4. S. D. Deshpande & C. Mande - Determination of Bond Lengths in Some Aluminium-Manganese Alloys, Phys. Stat. Sol. (a) 124, K71 (1991).
5. S. D. Deshpande, N. V. Moghe, V. B. Sapre and C. Mande on the use of a Silicon Crystal in a Cauchois-type Bent Crystal X-ray Spectrograph. Meas. Sc. Technol. 1. 1250 (1990).

2.3 DEPARTMENT OF CHEMISTRY

The Department of Chemistry consists of three disciplines, Inorganic, Organic and Physical Chemistry. For the Master's degree course the instruction is common for all the branches at the part-I level while the instruction in a specialised branch is given in the Second Year. Post-graduate degrees are awarded in each of the discipline

i) Teaching staff:

| Sr. Name No. | | Designation |
|--------------|--|-------------|
| 1. | Dr. S. K. Paknikar, M.Sc., Ph.D. | Professor |
| 2. | Dr. V. N. Kamat Dalal, M.Sc., Ph.D. | Professor |
| 3. | Dr. L.S. Prabhu Mirashi, M.Sc., Ph.D. | Professor |
| 4. | Dr. J. K. Kirtany M.Sc., Ph.D. | Reader |
| 5. | Dr. B. D. Desai M.Sc., Ph.D. | Reader |
| 6. | Dr. J.S. Budkuley M.Sc., Ph.D. | Reader |
| 7. | Dr. K. S. Rane M.Sc., Ph.D. | Reader |

| | | |
|-----|--------------------------------------|----------|
| 8. | Dr. J. B. Fernandes M.Sc., Ph.D. | Lecturer |
| 9. | Dr. S. P. Kamat M.Sc., Ph.D. | Lecturer |
| 10. | Dr. A. V. Salker M.Sc., Ph.D. | Lecturer |
| 11. | Dr. V. P. Kamat M.Sc., Ph.D. | Lecturer |
| 12. | Dr. S. G. Tilve M.Sc., Ph.D. | Lecturer |
| 13. | Dr. B. Gasgupta M.Sc., Ph.D. | Lecturer |
| 14. | Dr. B. R. Srinivasan M.Sc., Ph.D. | Lecturer |

In addition to the regular teaching staff, Dr. Mrs. Suneeta Nair is attached to the department as C.S.I.R. Pool Officer. Dr. N. Chandrasekhar joined as C.S.I.R. Pool Officer in April 1991.

II) Contributory Teachers:

During the year contributory teaching was also done by the following teachers.

1. Dr. John B. Fernandes, Principal, Govt. of Arts and Science College, Marcela, Goa.
2. Dr. G. R. Bhat, Department of Physics, Goa University.
3. Dr. R. B. Tangsale, Department of Physics, Goa University.
4. Dr. A. K. Shukla, Indian Institute of Science, Bangalore.
5. Dr. Vijaymohan, Indian Institute of Science, Bangalore.
6. Shri S. S. Hinde, P.E.S. College, Ponda.
7. **Dr.** U. M. X. Sangodkar, Department of Marine Biotechnology, Goa University.
8. Dr. P. R. Pednekar, Hindustan Ciba-Geigy, Goa.

III) Research students registered for Ph.D. at Goa University

| Name of the Research Guide | No. of students |
|----------------------------|-----------------|
| 1. Prof S. K. Paknikar | 3 |
| 2. Dr. B. D. Desai | 1 |
| 3. Dr. J. S. Budkuley | 1 |

IV) Visitors to the Department

1. Prof. A. W. Frahm,
Director, Pharmazeutisches Institute, University of Freiburg, Freiburg, W. Germany.
Delivered a talk entitled "Assymetric Synthesis" (29 August 1990).
2. Dr. G. D. Dhareshwar,
Hindustan Ciba-Geigy, Bombay.
Delivered a lecture entitled "How to develop a Product in Chemical Industry", (7th February 1991)

3. Dr. A. S. Rao, Emeritus Scientist
Indian Institute of Chemical Technology, Hyderabad.
Delivered a talk entitled "Strategies for the Synthesis of optically pure compounds - synthesis of suparenones". He also delivered lectures on 'Stereochemistry' (8th March 1991).
4. Dr. H. R. Sonawane, Senior Scientist Delivered a lecture entitled 'Synthesis of terpenoids with metal carbenoids' (8th March 1991).
5. Dr. Gurudas Zingde,
Akzo Chemicals, New York, U.S.A.
Delivered a lecture on 'Synthesis of Hirsutene' (7th May 1991)

V) Research Projects:

The work is in progress on the UGC sponsored minor research projects. Some new research project proposals have been submitted. Three research projects submitted for financial support have been approved.

VI) Seminars, Workshops, Conferences, etc.:

1. 9th Annual Conference of Indian Council of Chemists, Gulberga University, Gulberga, December, 21-23, 1990 Dr. K. S. Rane presented the following papers.
 - a) BiSrCaCu Oxide superconductors from their exalate and exalatehydrazinate precursors.
 - b) Decomposition of ferrous oxalate-hydrazinate in different controlled atmospheres.
2. 27th Annual Convention of Chemists, Magadha University, Bodhya Gaya, December 26-30, 1990. Dr. A. V. Salker presented a paper entitled 'Catalytic reduction of Nitric Oxide using carbon monoxide' Dr. V. P. Kamat presented a paper entitled 'Mullilum Diol A Revised Structure'.
3. Chemistry of Terpenoids, Goa University, Goa, March, 8, 1991.
Prof. S. K. Paknikar was the Chief Co-ordinator and all the organic chemistry teachers participated in organising the seminar. Dr. J. K. Kirlany presented a paper entitled 'Angelica archangelica phenol : A structure dilemma'.
Dr. V. P. Kamat presented a paper entitled 'Synthesis of 6-methyl-6-p-tolyl-heptane-2-one'. M.Sc. Part II students also participated. Dr. S. P. Kamat chaired one session.
4. Group Monitoring Workshop in Physical Chemistry (DST, New Delhi), Goa University, March, 18-19, 1991. The Workshop was hosted by Goa University.
Dr. J. B. Fernandes was the Chief Co-ordinator and departmental staff members actively participated in organising the workshop.
5. NCERT Workshop on Development of Training materials for Resource Persons in Chemistry', M.M. College, Vasco, March 31-April 5, 1991.
Prof. S. K. Paknikar delivered the inaugural address. Dr. S. P. Kamat and Dr. S. G. Tilve participated as resource persons.

VII) Publications:

1. J. S. Budkuley and
K. C. Patil
Synthesis, infrared Spectra and Thermoanalytical Properties of Transition Metal Sulfite Hydrazine Hydrates, Journal of Thermal Analysis, 36, 2583 (1990).

2. J.S. Budkuley and
K. C. Pathl
Synthesis and Thermoanalytical Properties of Mixed Metals Hydrazineate Hydrates - II Synth.
React. Inorg. Met-Org. Chem., 21(4), 709 (1991).
3. J. S. Budkuley
Thermal Reactivity of Dihydrazinium Nitritotriacetate, Thermochimica Acta, 176, 339 (1991).
4. J. S. Budkuley and
J. B. Fernandes
New curriculum plan in Chemistry at Goa University, Journal of Higher Education, 15 150 (1990).
5. J. K. Kirtany and
A. V. Gaonkar
Reimer-Tiemann reaction using carbon tetrachloride, Indian J. Chem., 30 B, 800 (1991).
6. B. R. Srinivasan and
S. Sarkar
First Report on Manganese (II) Tetrathiometalate (VI) Complexes : Isolation of (bpy)₂ Mn(u-s)₂ MS₂
(M = Mo, W; bpy=2 2-bipyridine) Inorg. Chem. 29, 3898 (1990).
7. B. R. Srinivasan and
P. K. Bharadwaj
Synthesis and Spectroscopic Characterisation of Tetrathiometalato Complexes of Bismuth (III),
Inorg. chem. Acta, 178, 165 (1990).
8. B. R. Srinivasan
EPR and Magnetic Properties of (bpy)₂ Mn(u-s)₂ MoS₂ Doped in Host Lattices (bpy=2, 2'-
bipyridine), Proc. of the solid state symposium 33C, 226 (1991).
9. J. B. Femandes and
B. D. Desai
Electrochemical Behaviour of Activiated Manganese Ores of Goa, Journal of Power Sources, 34,
207 (1991).
10. V. Moye and
K. S. Rane
Optimisation of Synthesis of nickelzinc-ferrite from oxalate and oxalate hydrazinate precursors,
Journal of Material Science : Materials in Electronics, 1, 212 (1990).

VIII) Any other details:

Prof. S. K. Paknikar delivered a invited lecture on 'Reduction of Ketones with Zn-HCl-ether system' at National Chemical Laboratory, Pune, (Oct. 26, 1990).

2.4 DEPARTMENT OF MICROBIOLOGY)

Teaching and Research staff

A) Teaching Staff

- | | | | |
|-----|-------------------|-------|-----------|
| i) | Dr. S. Mavinkurve | Ph.D. | Professor |
| ii) | Dr. J. D'Souza | Ph.D. | Reader |

| | | |
|---------------------|-------|--|
| iii) Dr. D. J. Bhat | Ph.D. | Reader wet. 5.9.90 |
| iv) Dr. I. Furtado | Ph.D. | Lecturer |
| v) Dr. S. Bhosle | Ph.D. | Lecturer |
| vi) Dr. S. Nazareth | Ph.D. | Lecturer w.e.f. 28.6.90 on study leave w.e.f. 18.9.90 |
| vii) Dr. S. | Ph.D. | Lecturer w.e.f. 11.1.91 |

Sharma **B**)

Research staff:

| | | |
|------------------------|-------|---|
| i) Dr. S. Nazareth | Ph.D. | Research Associate (C.S.1. till 21.6.90) |
| ii) Ms. S. Borkar | M.Sc. | Junior Research Fellow (D.A.E. w.e.f. 14.2.90) |
| iii) Mr. N. Kamat | M.Sc. | Senior Research Fellow (Goa DST) w.e.f. 6.6.90 |
| iv) Mrs. S. Raj | M.Sc. | Project Assistant (U.G.C.) w.e.f. 4.12.90 |
| v) Mr. N. D'Souza | Ph.D. | UGC faculty improvement programme w.e.f. 31.3.90 |
| vi) Mrs. S. M. Kaliwal | M.Sc. | Senior Research Fellow (CS1R) w.e.f. 1.1.91 |

II) Contributory teachers

A) Practicals

| Name of person | Institutions |
|------------------|---|
| i) Ms. N. Prabhu | Ex-student Practicals (July to Sept '90) |

B) Lectures:

| Name | Designation | Institution | No. of lectures per term |
|------------------------|--------------|---|--------------------------|
| i) Dr. Y. S. Prahalad | Reader | Dept. of Maths | 8 |
| ii) Dr. M. B. Kaliwal | Entomologist | Directorate of <i>health service</i> | 10 |
| iii) Dr. c. Rodriguese | Lecturer | Dept. of Marine Science | 10 |
| iv) Dr. A. Dinge | Lecturer | P.E.S. College, Ponda-go. | 6 |
| v) Dr. N. B. Bhosle | Scientist | N.1.0, | 2 |
| vi) Dr. K. Paknikar | Scientist | MACS, Pune | 8 |

III) Visitors to the Department:

The following lectures/talks were organised by the Dept. jointly with the Goa Unit of Association of Microbiologist of India.

| Date | Speaker | Topic |
|----------|--|---|
| 07.12.90 | Dr. P. d. Potdar Research Centre Panaji | Electron Microscopy of Normal and malignant cells. |
| 13.07.91 | Prof. Rale Pune University | Projects in progress at department of microbiology Pune University. |
| 13.07.91 | Prof. Polassa Osmania University | Pathogenesis of influenza virus. |

Visits and Discussions:

| Date | Parent institute of visitors | Purpose |
|----------------|------------------------------|---------------------|
| 05.01.90 | Academic College, GU | Subject upgradation |
| 13-15 Dec. '90 | Academic College, GU | Subject upgradation |

IV) Research students

| Name of the Research Guide | Research degree | No. of students working |
|----------------------------|-----------------|-------------------------|
| i) S. Mavinkurve | Ph.D. | 3 |
| ii) J.D'Souza | Ph.D. | 3 |

The M.Sc. Part II students successfully completed the dissertations/Project work assigned to them on below mentioned topics.

| Name of the student | Research Topic |
|-------------------------------|--|
| 1. Andrade Cynthia de Piedade | Transformation of Santonin by Pseudomonas Strain SATCC 43388 |
| 2. Da. Costa Olivia Odette | The Transport & Metabolism Mannitol by Arthrobacter ilicis. |
| 3. Doiphode Shila Patilba | Studies on Cell Surface Components & Parameters effecting attachment of Cell to immiscible hydrocarbons. |
| 4. D'Souza Judith Bethlina | Is ^o latio of a viscous material and its relation to a pigment |
| 5. Lobo Belinda Augusta | Studies on Saprophytic fungi in the estuarine environment Lignicolous Marine fungi. |

- | | | |
|----|---------------------------|--|
| 6. | Nagvenkar Madhavi Ramnath | Study of Laccase in mycelial culture of Termitomyces strains |
| 7. | Parmekar Nandini Ramakant | Factors affecting the production and activity of ferulic acid decarboxylase. |
| 8. | Pereira Dorothy Milagrina | Studies on fungi from Calcareous substrata from Goan Beaches. |
| 9. | Souza Marina do Carmo | Studies on Fungal Pathogens on Estuarin Fauna. |

V) Research Projects

Following research projects, funded by different agencies sanctioned to staff of the department of Microbiology.

| Name of staff | Project title | sanctioned | Date of - Funds |
|---------------------|---|--------------------------------------|------------------------------------|
| Prof. S. Mavinkurve | Genetic studies on Pseudomonas strain transforming | Department of Atomic Energy, Bombay. | 1990-93 Rs. 237,900/- |
| | Mechanism of transport and transformation of santonin | U.G.C. | 1990-93 Rs. 65,000/-+ staff |
| | Interaction between micro-organism & hydrophobic substrates longifolene & santonin | CSIR | 1990-93 Rs. 1,96,000/- & staff. |
| | Survey of identification of edible mushroom of Goa and their cultivation potential. | DST (Goa) | w.e.f. 1990 Rs. 2,10,000/- |
| Dr. D. J. Bhat | Studies on tropical microfungi | University of Waterloo Canada | w.e.f. 1989 |
| Dr. s. Bhosle | Mannitor metabolism in Arthrobacter | U.G.C. | w.e.f. June '91 Rs. 14,000/- |
| Dr. I. Furtado | Isolation of a temperate phase from pseudomonas | U.G.C. | wet. Jan '91 Rs. 17,000/- |

VI) Visits Abroad:

Dr. J. D'Souza visited Upsalla Sweden for training in bioapplication in June 1990.

VII) A) Participation in Seminars, Conferences & Workshops

- i) **Dr. D. J. Bhat** and N. Kamat attended the 'National Symposium Mushroom held at Trivandrum on 22-24 January, 1990. Dr. Bhat chaired a session at the symposium proceedings.

- ii) Dr. I. Furtado and Dr. S. Bhosle attended teg A.M.I. conference held at Tamil Nadu Agricultural University on 21-25 January, 1991.
- iii) Dr. S. Mavinkurve participated in the Brain Storming session conducted by DST (India) at MACS Pune from 30.4.90 to 2.5.91.

B) Participation outside department activities:

t.

- i) Followin gresearch students/staff members were office bearer of Association of Microbiology of India (Goa Unit)
 - 1. Ms. D. Pacholi - Treasurer
 - 2. N. Kamat - Secretary

VIII) Study Tour:

M.Sc. Part II students were taken to following institutes in Pune for their annual study tour from 19th March to 24th March 1991, accompanied by Dr. I. Furtado. A series of demonstration were organised for the benefit of our students.

- i) Microbiology, Botany, Zoology and Biotechnology Departments of Pune University.
- ii) Maharashtra association for cultivation of Science
- iii) Serum Institute.
- iv) Hindustan antibiotics.
- v) National Chemical Laboratories
- vi) National Institute of Virology.

IX) Publications:

- i) O.D. Costa, S. Bhosle and S. Mavinkurve, 1990. Studies on hydrophobicity and cell envelop of Arthrobacter Sp Paper presented at 31st Annual Conference of Microbiologist of India held at Tamil Nadu Agricultural University, Coibatore, 22-24 January, 1991.
- ii) Da Costa, M.I. Furtado* and S. Mavinkurve, 1990. Transport of Santonin by Pseudomonas Strain S ATCC 43388. Paper presented at 31st Annual Conference of Microbiologist of India held at Tamil Nadu Agricultural University, Coimbatore, 22-24 January, 1991.
- iii) Kamat N. And S. Mavinkurve, 1991 Studies on differentiation and fructification in Termitomyces app. of Goa. Presented a paper at Mycological conference, on Thiruvananthapuram, Kerala held at college of Agriculture from 22nd-24th January 1991.
- iv) Thomas V., Ahmad, R. and Bhat, d. J. an undescribed species of Dichotomophthorops on rice from India. Mycologia 82: 237-239 (1990).
- v) Bhat, D. J. And Chien, C. Y. Water-borne Hyphomycetes found in Ethiopia. Trans. Mycol. Soc. Japan. 31:147-157 (1990).
- vii) Sangodkar, U.M.X. and Mavinkurve, S. Glucose influenced degradation of alpha-santonin in Pseudomonas sp. Strain S. (ATCC 43388). Acta Biotechnol 11(1) 67-71 (1991).

2.5 DEPARTMENT OF GEOLOGY

I) Teaching and Research Staff in the Department

- | | |
|--|-----------------|
| 1. Dr. A. G. Desai, M.Sc., Ph.D. | Reader and Head |
| 2. Dr. P. S. Raikar, M.Sc., Ph.D. | Reader |
| 3. Dr. T. A. Vishwanath, M.Sc., Ph.D. | Lecturer |
| 4. Dr. K. Mahender, M.Sc., Ph.D. | Lecturer |
| 5. Dr. A. G. Chachadi, M.Sc., Ph.D. | Lecturer |

Ph.D.

II) Research Students

| (Research Guide) | No. of students working | |
|------------------|-------------------------|-----------|
| | Full time | Part time |
| A. G. Desai | | 1 |

Research Projects:

- i) Microfacies analysis of miliolitic limestones of Diu, Western India, sponsored by D.S.T. Investigator: Dr. K. Mahender.
- ii) Analysis of steady flow to large diameter well tapping multiaquifer system - UGC sponsored minor research project.
Investigator: Jr. A. G. Chachadi.

III) Visitors to the Department:

- 1) Prof. K.S. Valdiya, Professor and Head, Deptt. of Geology, Kumaun University, Nainital visited the Department and held discussion with the faculty on academic programmes of the Department.
- 2) Dr. P. K. Banerji, Former Deputy Director General, Geological Survey of India visited the Department and held discussion with the faculty on research programmes.
- 3) Dr. K. R. Gupta, Principal Scientific Officer, Deptt. of Science and Technology visited the Department and had discussions on DST sponsored research programmes.

IV) Participation in Seminars, Conference, Workshops

Dr. A. G. Dessai attended Thematic Workshop on Deccan Volcanics at Nagpur, 1990.

Dr. K. Mahender attended VII-VIII Convention of Indian Association of Sedimentologists, New Delhi, 1990.

Dr. A. G. Chachadi attended a short term course entitled Remote Sensing for Groundwater exploration, Roorkee, 1990.

- V) (1) K. Mahender (1990), Petrography, diagenesis and depositional environments of Middle Jurassic Jaisalmer Carbonates, Rajasthan, India, Indian Journal of earth Sciences Vol. 17, pp. 194-207.
- (2) A. G. Chachadi (1991) unsteady flow to a large diameter well in a finite aquifer proceeding of the National seminar on Recent Trends in water Resource Engineering IIT, Kampen AI -A11.
- (3) A. G. Chachadi (1991) Analysis of unsteady flow to a multi-aquifer large diameter well. Proceeding of Seminar on Ground Water Development and Management in Irrigation and other water sectors Kozikode pp. 1-20.
- (4) A. G. Chachadi (1991) Drawdown at a large diameter observation well journal of Hydrology, Amsterdam, /p.15.

2.6. DEPARTMENT OF ZOOLOGY

The Department of Zoology was established in this University in the month of June 1990 by an ordinance passed by the Executive Council of Goa University..

The establishment of the Department was a post plan decision hence regular teaching staff were not appointed, instead the University appointed Shri M. P. Tonsekar, a Senior Lecturer and HOD of Zoology of Smt. Parvatibai Chowgule College, Margao, as Coordinator.

The University formed an Advisory Committee, headed by Dr. B. N. Desai, Director, National Institute of Oceanography, Panjim. Beside Dr. Desai. The Committee included Scientists, Educationists and Teachers of repute. This Committee was assigned to formulate and frame the syllabii for M.Sc. Part I and II, and give necessary guidance to the University in respect to the post graduate teaching & research.

In all nine students were admitted to M.Sc. Part 1, The selection of the students were based on marks obtained by them in the final examination i.e. Merit based selection.

The teaching programme was undertaken with the help of Senior teachers drawn from different colleges affiliated to the University. Beside college teachers scientists from N.1.0., G.M.C., and I.C.A.R. were invited to deliver talks to the students and the contributory staff.

Students were taken for field trips/visits to place of Ecological importance around Goa to give them first hand practical knowledge of the subjects.

2.7 DEPARTMENT OF BOTANY

I) Teaching Programme (Core Courses) - BC 1 to BC 4

1. Four Core courses have been completed with the help of contributory teachers from various colleges (6 members from Chowgule College, 4 from Carmel college, 4 from PES college, Farmagudi and 4 from Dhempe College, Panaji). Besides these, the help was taken from the Office of the Central Plant Protection, Govt. of India - Shri K. P. Mirajgaonkar; 4 Scientists from ICAR, complex for Goa, Ela Farm, Old Goa.

Scientists from National Inst. of Oceanography (No. 8) also delivered lectures for the benefit of M.Sc. Botany Part I students.

2. The visiting Faculty members (from different Universities) were :

- a) Prof. V. N. Raja Rao, Centre of Advanced Study in Botany, University of Madras, Guindy Campus, Madras delivered lectures on Algal Productivity.
- b) Dr. B. N. Apte, Consultant Molecular Geneticist, MRC Bombay Hospital Trust, Marine Lines, Bombay 400 020 delivered lectures on Molecular Biology from 5.3.1991 to 9.3.1991.
- c) Prof. G. M. Reddy, Prof. of Plant Genetics, Dept. of Genetics, Osmania University, Hyderabad delivered lectures on Tissue culture Dates: 14.3.91 - 16.3.91.
- d) Dr. O. P. Saxena, Dept. of Botany, University School of Sciences, Gujarat University, Ahmedabad delivered lectures in Plant Physiology from 18.3.91 to 23.3.91.
- e) Prof. S. S. Raghuvanshi, HOD Botany, Lucknow University, Lucknow delivered lectures on the "Importance of B Chromosomes & evolution on 6.5.91.

Examination of these four core courses has been conducted and the result.

Teaching Programme (Elective Courses)

3. There are four Elective courses for M.Sc. Botany Part I students. Out of those two theory papers have **been** completed and the exam. has been conducted. The remainin gtwo elective courses are Practicals. Since the Botany dept. of this University does not have any equipments, furniture, chemicals, etc. the said practicals are being conducted in S. P. Chowgule College, Margao. Nearly 90% ofthe course practicals has been completed and the exam. will be conducted in the first week of October, 91.
4. Mid point tests and assignment tests in respect of Core and Elective courses have been completed.

Seminars

1. Seminar topics were given by the members of the Visiting Faculties:

- a) Dr. B. N. apte, Molecular Biology : Topic : Molecular Biology
- b) Dr. O. P. Saxena, Plant Physiology : Topic : Plant Physiology.

Field Trips (Botanical Excursions)

Six field trips were taken and the students have written reports on the same. The trips were taken to:

1. **Indi3n** Council of Agricultural Research Complex for Goa, Ela Farm, on 21.8.90
2. National Institute of Oceanography, Dona Paula, on 7.9.90.
3. Field trip to Colem on 23.9.90.
4. Field trip to Pale Mines on 6.10.90.
5. Field trip to Central Plant Protection Station, Margao, on 16.11.90.
6. Field trip to Revona on 17.11.90.

Popular Lecture:

One popular lecture was arranged for the benefit of non-teaching staff and the teaching staff of this University on 8th March, 1991 at 3.00 p.m. in the Conference Hall. **The** tOpic was "Genetics &

Medicine". Lecture was delivered by Dr. B. N. Apte, Consultant molecular geneticist, MRC, Bombay Hospital Trust, Bombay.

3.1 DEPARTMENT OF MARINE SCIENCE

I) Teaching and *Research Staff* in the Department

(a) Teaching Staff

- | | |
|--|---|
| 1. Dr. T. S. S. Rao M.Sc., D.Sc. | Head and Coordinator |
| 2. Dr. C. L. Rodrigues M.Sc., Ph.D. | Reader |
| 3. Dr. G. N. Nayak M.Sc.(A.G.), Ph.D. | Lecturer |
| 4. Dr. H. B. Menon M.Sc., Ph.D. | Lecturer |
| 5. Mr. S. Upadhya | Lecturer (Upto 30-6-1990) Visiting Teacher (July, 1990 to April, 91) |

(b) Research Staff

1. Ms. Debbie Fernandes, M.Sc. Research Fellow
2. Ms. Yashoshri Srivastava, M.Sc. Research Fellow
3. Mr. Shripad Bhat, M.Sc. Research Fellow
4. Mr. S. S. Bukhari, M.Sc. Junior Project Fellow
5. Ms. B. M. Fernandes, M.Sc. Junior Project Fellow

I) **Contributory Teachers**

| I Term | |
|--|----------------------------|
| Name | No. of Lectures/Practicals |
| 1. Mr. P. V. Sathe, M.Sc, NIO | 6 |
| 2. Dr. S. S. Shenoi, M.Sc., Ph.D., NIO | 6 |
| 3. Mr. V. Ramesh Babu, M.Sc., N10 | 8 |
| 4. Dr. S. Wahidulla, M.Sc. Ph.D., NIO | 5 |
| 5. Dr. V. Ambiyee, M.Sc. Ph.D., NIO | 10 |
| 6. Dr. H. R. Gomes, M.Sc., Ph.D. MO | 5 |
| 7. Dr. D. Chandramohan, M.Sc., Ph.D. NIO. | 6 |
| 8. Dr. T. Jagtop, M.Sc., Ph.D. NIO | 8 |
| 9. Mr. J. I. Goes, M.Sc., MO | 7 |
| 10. Dr. M. Madhupratap, M.Sc. Ph.D. NIO | 8 |
| 11. Dr. C. T. Achuthankutty, M.Sc. Ph.D. NIO | 8 |
| 12. Mr. A. Gouveia, M.Sc. MO | 20 |
| 13. Mr. J. A. Menezes, Dhempe College | 20 |
| 14. Mr. S. U. Kamat, Dhempe College | 20 |

II Term

| | |
|---|----|
| 1. Mr. V. Gouveia, M.Sc. NIO | 25 |
| 2. Mr. J. A. Menezes, M.Sc. Dhempe College | 25 |
| 3. Mr. S. U. Kamat, M.Sc. Dhempe College | 25 |
| 4. Dr. R. Sengupta, M.Sc. Ph.D. NIO | 5 |
| 5. Dr. M. S. Shailaja, M.Sc. Ph.D. NIO | 4 |
| 6. Dr. A. Sarkar, M.Sc. Ph.D., NIO | 5 |
| 7. Dr. N. B. Bhosle, M.Sc. Ph.D. MO | 4 |
| 8. Dr. A. B. Wagh, M.Sc., Ph.D., NIO | 6 |
| 9. Mr. J. I. Goes, M.Sc. NIO | 6 |
| 10. Dr. V. P. Devassy, M.Sc., Ph.D., NIO | 4 |
| 11. Dr. S. C. Goswami, M.Sc., Ph.D., MO | 4 |
| 12. Dr. M. Madhupratap, M.Sc., Ph.D., MO | 4 |
| 13. Dr. A. G. Untawale, M.Sc., Ph.D., NIO | 4 |
| 14. Dr. V. Ambiyee, M.Sc., Ph.D., P.E., College | 6 |
| 15. Dr. C. T. Atchuthankutty, M.Sc., Ph.D., MO | 6 |
| 16. Mr. S. R. S. Nair, M.Sc., MO | 4 |
| 17. Dr. A. H. Parulekar, M.Sc., Ph.D., NIO | 4 |
| 18. Dr. D. Chandramohan, M.Sc., Ph.D., MO | 6 |
| 19. Dr. S. W. A. Naqvi, M.Sc., Ph.D., MO | 4 |
| 20. Dr. M. Dileepkumar, M.Sc., Ph.D., NIO | 4 |
| 21. Dr. S. Wahidulla, M.Sc., Ph.D., MO | 6 |
| 22. Dr. A. A. Fernandes, M.Sc., NIO | 12 |
| 23. Mr. V. Ramesh Babu, M.Sc., MO | 12 |

111) M.Sc. (Marine Science) dissertation guides (by Contributory Teachers)

1. Mr. J. I. goes and Dr. (Ms.) Helga de Rosaria Gomes, N.1.0. guided the following dissertation :-
 - a) "Grazing, gut evacuation and nutrient regeneration in a tropical calanoid copepod, *Acarti* sp" by Geeta Govind Kharangate, M.Sc. (Marine Science) student.
 - b) "Gut pigment dynamics and excretion of nitrogenous nutrients in some tropical estuarine zooplankton" by Shakuntala Caiero, M.Sc. (Marine Science) student.
2. Dr. A. g. Untawale, N.1.0. guided the following dissertation "Ecological studies on Marine algae of Dona Paula coast" by chatura R. Prabhudessai, M.Sc. (Marine Science) students.
3. Dr. (Mrs) Classy L.D. 'Silva, N.I.O. guided the following dissertation: "Toxicity testing of oil and dispersion on the brine shimp, *Anemia*" by Jennifer Linda Godirtho, M.Sc. (Marine Science) student.

111) Visiting Teachers:

Mr. S. Upadhyay

IV) Details of Research Students

| Name of teachers (Research guide) | M.A./M.Sc. by2 research | | Ph.D. | |
|---|---------------------------------|--------------|------------------------------------|--------------|
| | No. of students Full Time | Part Time | No. of students Full Time | Part Time |
| 1. Dr. T. S. S. Rao | | | 3 | 1 |
| a) Mr. S. R. Ganihar has been awarded Ph.D. on his thesis "Impact of mining on the found composition of Goa". He worked under the guidance of Dr. T. S. Rao. | | | | |
| b) Mr. Dipak C. Khandeparkar worked on the "Distribution and size gradient analysis of the muricid whelk, <i>Morula granulata</i> (Duclos) at Anjuna, Goa for his MSc. (Marine Science) dissertation under the guidance of Dr. C. L. Rodrigues. | | | | |
| c) Ms. Shobha Y. Shetye worked on the "Water characteristics and mass transport in the upper 1000m of the Indian Ocean sector of southern ocean" for her M.Sc. (Marine Science) dissertation under the guidance of Dr. H. B. Menon. | | | | |
| d) Ms. Fredia Dias worked on the "Behaviour of iron in the Mandovi estuary" for her M.Sc. (Marine Science) dissertation under the guidance of Mr. S. Upadhya. | | | | |

V) Research project to be included

VI) Participation in Seminars, Conferences, Workshops

- a) Dr. H. B. Menon Participated in the "Workshop on Anatarctic Krill" held in November 1990 at N.1.0. Goa.
- b) Dr. G. N. Nayak presented two papers entitled "Effect of mine waste on total suspended matter within Mandovi estuary, Goa" and "Variation is dissolved silica, total suspended matter and salinity at a fixed location in Mandovi estuary, Goa" at a seminar on "Ecology of Western Ghats" held at Dharwad during 29-31st March, 1991.

VII) Publications

Harilal B. Menon & P. V. Sathe 1990 Land - Sea delineation in the visible chambers of Landsat thermatic mapper.
Def. Su. J. Volume 40(3), pp 221-230.

VIII) Any othe rdetails

- a) Dr. T. S. S. Rao is a member of the National Committee in Mangrove and Coral reefs, Ministry of Environment, Forests & Wild Life, Govt. of India, New Delhi.
- b) Dr. T. S. S. Rao is a member of the Research Committee on Western Ghats Development, Ministry of Environment, Forests & Wild Life, Govt. of India, New Delhi.
- c) Dr. T. S. S. Rao as a member of the Academic Council of Goa University.
- d) Dr. C. L. Rodrigues is a member of the Asian Fisheries Society, Phillipines.

e) Dr. G. N. Nayak is a member of the Academic Council of Goa University.

l) **Mr. H. B. Menon** has been awarded in September, 1990 a Ph.D. by the Cochin University of Science and Technology for his thesis "Fronts in the Indian Ocean sector of Southern Ocean".

g) **Mr. S. Upadhyay** has submitted his Ph.D. thesis entitled "The behaviour of aluminium in waters of the Mandovi estuary and the Arabian Sea" to the Poona University in April, 1991.

3.2 DEPARTMENT OF MARINE BIOTECHNOLOGY)

a) Teaching Staff

| | |
|--|----------------------------|
| Dr. T. S. S. Rao M.Sc., D.Sc. | Professor and Co-ordinator |
| Dr. U. M. X. Sangodkar M.Sc., Ph.D. | Reader |
| Dr. U. Barros M.Sc.Ph.D. | Lecturer |
| Mr. Sanjeev Ghadi M.Sc. | Lecturer |
| Mrs. S. Kerker M.Sc. | Lecturer |

b) Research Staff

Mr. Subhash Donde (JRF) U.G.C.

11) Contributory Teachers

| | |
|--|---|
| 1. Dr. K. Dharmalingam Co-ordinator of Biotechnology, Madurai Kamraj University. | 10 lectures Genetics Engineering |
| 2. Prof. G. M. Reddy, Osmania University, Hyderabad. | Plant Tissue Culture |
| 3. Dr. V. Sarangadhar, TIFR Bombay | 15, lectures Cell and Developmental Biology. |
| 4. Dr. A. K. Shah, M. S. University, Baroda | 10 lectures Fermentation Technology. |
| 5. Shri J. S. Sampria, N.I.O., Goa | 18 lectures Computer Applications. |
| 6. Mr. E. D'Souza, Dept. of Commerce, Goa University. | 24 lectures Statistics |

| | | |
|-----|---|------------------------------------|
| 7. | Dr. S. C. Goswami, Scientist, N.1.0., Goa | 10 lectures Coastal Aquaculture |
| 8. | Dr. C. T. Achuthankutty, Scientist, N.1.0., Goa | 7 lectures Coastal Aquaculture |
| 9. | Dr. Usha Goswami, Scientist, N.1.0., Goa | 9 lectures Coastal Aquaculture |
| 10. | Dr. Z. A. Ansari, Scientist, N.1.0., Goa | 7 lectures |
| 11. | Dr. A. H. Parulekar, Dy. Director, N.I.O, Goa. | 3 lectures |
| 12. | Dr. V. P. Devassy, Scientist, N.1.0., Goa. | 3 lectures |
| 13. | Dr. J. Royan, Scientist, N.1.0., Goa. | 3 lectures |
| 14. | Dr. S. R. Sree Kumaran, Nair, Scientist, N.1.0., Goa | 4 lectures |
| 15. | Dr. V. K. Dhargalkar, Scientist, N.1.0., Goa. | 6 lectures Coastal Aquaculture |
| 16. | Dr. Keshava Rao, N.1.0., Goa. | 3 lectures |
| 17. | Dr. L.Raghukumar, N.1.0., Goa. | 3 lectures |
| 18. | Dr. S. S. Sawant, Scientist, N.1.0., Goa | 3 lectures |
| 19. | Dr. T. V. Ravindran | 3 lectures |
| 20. | Dr. N. B. Bhosle Scientist, N.1.0., Goa | 4 lectures |
| 21. | Dr. Sujatha Sanzgiri, Scientist, N.1.0., Goa. | 4 lectures |
| 22. | Dr. Shailaja Anand Scientist, N.1.0., Goa. | 4 lectures |

III) Visitors to the Department

1. **Dr. P. R. Dubhashi**, Vice-Chancellor, Goa University on 27th February, 1991.
2. Dr. Reddy, Head, Biophysics Department, Punjab University, Chandigarh on 29/3/91.

3. Dr. S. Ojha, Department of Biochemistry, Punjab University, Chandigarh on 1/4/91.
4. Dr. P. S. B. R. James, Director, CMFRI, Cochin on 20/6/91.

IV) Participation in Seminars, Conferences, Workshops

Dr. T. S. S. Rao

Chaired a seminar in International Conference of Oceanography, N.1.0., Goa.

Dr. U. M. X. Sangodkar

- i) Delivered a lecture on "Biotechnological Approach to combat Oil Pollution" at ONGC's Institute of Petroleum safety and Environment management Goa on 23rd August, 1990.
- ii) Delivered lectures on Transposon Mutagenesis, Gene Bank & Gene cloning methodology - at Refresher's course organised by AGAZ, Goa on 8th & 9th Nov. 1990.

Mr. S. Ghadi

Participated in the National Symposium on "Current Trends in Biotechnology" at Cochin - Nov. 28-30, 1990.

The M.Sc. (II) students presented seminars on the following topics:-

| Student | | Topics |
|----------------------|-----------|--|
| 1) Anjali Naik | 1) | Degradative plasmids. |
| | 2) | Invitro detection of plasmid eucoded prod. |
| 2) Umesh Kolvekar | 1) | Genetics probes |
| | 2) | Pulsed field gel electrophoresis. |
| 3) Sonu Kaul | 1) | Polymerase chain reaction |
| | 2) | Protein Engineering |
| 4) Gaurav Mathur | 1) | Insulin gene cloning |
| | 2) | Agro bacterium Induced Transformation. |
| 5) Kenneth Rodrigues | 1) | Reporter genes |
| | 2) | Bacillus thuringinesis Crystal Toxin. |
| 6) Andrew Lynn | 1) | Gene The raphy |
| | 2) | Application of Genetic Engineering. |
| 7) Lalit Kumar | 1) | Oligonuclotide synthesis |
| | 2) | Transguric plants & animals. |

Three students participated in the "International Seminar on New Frontiers in Horticulture" at Bangalore from 251h-271h November, 1990.

V) Publications & Papers Presented

1. Tewari S, Ghadi S, & Sangodkar U.M.X. (1990) Detection and characterisation of Xyle *gene* product from *Pseudomonas Cepacia Paa* responsible for degradation of phenol.

Abstracts of "Current Trends in Biotechnology", Cochin.

2. GLUCOSE INFLUENCED DEGRADATION OF ALFA-SANTONIN IN PSEUDOMONALS SP. STRAIN S (ATCC 43388)
Sangodkar U.M.X. & S. Mavinkurve
Acta Biotechnologica 11; 67-71 (1991).
3. UPSTREAM REGULATORY SEQUENCE FOR TRANSCRIPTIONAL ACTIVATOR XYL R IN THE FIRST OPERON OF XYLENE METABOLISM ON THE TOL PLASMID. Inouye, S., M. Gomada, U.M.X. sangodkar, A. Nakazwa & T. Nakazawa.
J. of Molecular Biology. Jan issue (1991).

VI) Research Activities

M.Sc. Biotechnology students have to complete a research project in partial fulfillment of the degree. Following students have completed their dissertation in 1990.

1. Sonu Kaul Studies on crude oil degradation by Marine Fouling Bacteria.
2. Umesh Kolvekar Dynamics of growth of Mixed populations of *Alteromonas haloplanktis* and *Pseudomonas Cepacia PAA* in continuous cultures
3. Lalit Kumar Expression of Genes from Terrestrial Micro organism in the Marine Bacterium *Alteromonas haloplanktis* Var 214.
4. Andrew Lynn The Computer & Nucleic acid Sequence Analysis.
I) The Commercial Software package for molecular biology (i) Using it to map the plasmids pUS 2011.
II) A programmable approach to nucleotide sequence analysis (i) Analysis of *E.Coli* promoter sequence.
5. Gaurav Mathur Stability of Broad - Host - Range Plasmid Vectors in *Escherichia Coil K - 12* HOST
6. Anjali Naik Use of *Artemia* as an indicator strain of *Oryza sativa*.
By plant tissue culture.

Ph.D. Students - 3 with Dr. U.M.X. Sangodkar
Ghadi Sangeev,
Dhonde, Subhash
Kerker, Savita.

VII) Co-Curricular and other Activities

1) Field Trips

- a) Industrial Visit was organised to expose the students to pharmaceutical and Industrial application - CMM & CIBA pharmaceuticals and Arlem breweries were visited.
- b) A trip to survey marine flora and fauna around Arambol coast, was organised on 11th May, 1991.

2) National Science Day Celebrations

To commemorate Dr. B. R. Ambedkar's birth centenary and National Science Day, we organised a variety of programmes from 25th-27th February 1991, as listed below.

ESSAY COMPETITION : "Ambedkar's contribution to the nation".

POSTER COMPETITION : "A theme in Biotechnology/Modern Biology".

ELOCUTION COMPETITION on 27th Feb with topics

- 1) Where is Science taking us?
- 2) The excitement of modern biology.
- 3) Biotechnological Revolution.

These competitions were open to the students studying in classes IX - XII std.

In an attempt to reach the public and create an awareness of Biotechnology, we organised an exhibition which was open to the public. Posters, equipment and models, on the contents and uses/applications of Biotechnology, were displayed. Video films on Genetic Engineering were also screened.

3) Talks

Dr. U. Barros gave a talk to the Panjim Jaycees on "Educational Lethargy in Goa" on November 24th 1990. Mr. A. Lynn gave a talk over the radio on "Biotechnology".

4) Departmental

Integrated into the course work is a summer training programme in which we attempt to place the students in varied research areas, to attain an exposure to research and applications. All the students were placed in the following institutes from the period 5th June - 20th July, 1991:

| | |
|--------------|--|
| M. Murlu | - National Institute for Immunology, New Delhi. |
| M. Yadav | - National Institute for Immunology, New Delhi. |
| J. Coelho | The Foundation for Medical Research, Bombay. |
| M. Bharadwaj | The Foundation for Medical Research, Bombay. |
| N. Sannbhadi | Central Food Technology Research Institute, Mysore. |

S. Nayak

- National Institute of Oceanography,
Goa.

5) Distinction

All seven students of M.Sc. (II) appeared for various competitive and entrance exams, of which a few results have been declared as below.

I - Joint UGC/CSIR Exam - held in December, 1990.
Gaurav Mathur - Selected for CSIR JRF.

I - GATE (Gr. B : Biological Sciences) Feb. 1991.

All three students were successful with the following percentile scores:

G. Mathur 98.5%

L. Kumar 88.5%

S. Kaul 78.5%

■ **Ph.D.** Entrance Exams - Most of the students have passed various entrance tests for Ph.D. courses namely at, N.I.T. Delhi, I.I.T., J.N.U., Delhi, CCMB Hyderabad, and I.I.Sc. Bangalore and are waiting for final list.

3.3 DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

Goa University right at its inception identified Computer Science & Technology as one of the thrust areas. From the year 1987, a Separate Department of Computer Science and Technology was set-up. To begin with, a full-time six semester post-graduate course leading to the degree of Master in Computer Applications (MCA) was started from the academic year 1987-88.

During the year under report 17 students were selected for admission to the MCA course out of 111 eligible candidates. The selection was made through an Entrance Test held on 20.6.90. In addition, for the IIIrd and Vth semester, 23 students each got themselves registered.

The functioning of the Computer lab. installed with a UNIX based system was satisfactory throughout the academic year, with all three batches of MCA students getting on an average minimum 4-5 hours of Computer time every week.

)] Teaching and Research staff in the Department:

(a) Regular Faculty

1. Shri V. V. Kamat Lecturer
M.Phil. in Computer Science
2. Shri **S. A. M.** Rizvi Lecturer
M.Sc. Maths, Post-graduate
Diploma in Computer Science

- | | | |
|----|--|----------|
| 3. | Shri V. V. Navelkar M.S. in Computer Science M.S. in Industrial & Management System Engineering | Lecturer |
| 4. | Miss Yma Pinto M.C.A. | Lecturer |
| 5. | Mrs. Jyoti Sawant M.C.A. | Lecturer |
| 6. | Miss Nilina Elizabeth Kuriakose M.C.A. | Lecturer |

Shri S. D. Kamat, M.Tech. in Computer Science who was working as Lecturer since 1988 resigned the job from July '90 to proceed to the University of Texas A & M, U.S.A. for his doctoral studies in Computer Science.

(b) Contributory Teachers:

1. Dr. A. J. Jayanthan, Deptt. of Mathematics, Goa University delivered 38 lectures on "Discrete Mathematical Structure".
2. Shri S. U. Kamat, Dhempe College of Arts & Science delivered 42 lectures on "Linear Algebra".
3. Shri Iyengar & Shri S. V. Raman, Chartered Accountants, together delivered 38 lectures on "Accounting and Financial Management."
4. Shri J. A. Menezes, Dhempe College of Arts & Science, delivered 40 lectures on "Computer Oriented Statistical Methods."
5. Shri U. Amonkar, Goa College of Engineering, delivered 45 lectures on "Computer based Optimisatio Model -1.
6. Dr. Shreekumar, Dr. Nadda, Shri Satish Hegde, Deptt. of Management Studies and Mrs. Ruth D'Souza St. Xavier College of Arts and Science, delivered in all about 60 lectures on "Introductory Behavioural Sciences and Introduction to Organisational Structure.
7. Mjss Halima Sadia, Deptt. of Economics, Goa University delivered 44 lectrures on "Managerial Economics".

(c) Visiting teachers:

1. Shri J. D. Deshmukh and Shri Anant G. Joshi from NCST, Bombay delivered 20 lectures on "Performance Evaluation of Computer Systems and Computer Centre Management".
2. Shri Frederick C. Nazareth from Zuari Agro Chemicals Ltd., delivered 37 lectures on "Systems Analysis and Design".
3. Shri H. Shreekumar from NCST, Bombay delivered 28 lectures on "Data Communication Network and Distributed Processing".

4. Smt. Laxmi Panda and Shri S. V. Khandekar from NCST, Bombay delivered 28 lectures on "Computer Graphics".
5. T. M. Vijayaraman, NCST, Bombay delivered 35 lectures on "Data Management".
6. Dr. S. A. Kelkar, General Manager, Apple Industries Bombay delivered 12 lectures on "Structured System Analysis & Design Methodology".
7. Shri Deepak Shikarpur, Senior Business Executive, Telco, Pune, delivered 12 lectures on "CASE Methodology".

(d) Seminars, Conferences, Workshops, etc.

The Department in association with Computer Society of India (division VII) and Goa Chapter, organised a two-day National Conference on "Computer Virus & Data Security" on 19th & 20th April '91 at Goa University. The Conference was attended by over one hundred delegates which included leading Computer experts from Industry and academia.

(e) Other Details:

As a part of its Extension Service Programme, the Department conducted for the first time a 4 week Summer Vacation Course for S.S.C. students on "Fundamentals of Computing and Programming through PASCAL". The broad objective of the course was to expose the students to Computer and create an awareness about potential careers in the field of Computers. The course was conducted six days a week from 9.00 A.M. to 4.30 P.M. and consisted of lectures, tutorials, practicals, video shows a few invited talks. A total number of 24 students were admitted for the course and an amount of Rs. 1000/- per student was charged as course fee. The course was overall a success.

4.1 DEPARTMENT OF COMMERCE

Professor S. M. Bijli took over as Professor and Head of Department of Commerce on the 6th of September, 1989.

1. Hundred students were admitted during the session 1990-91 for [M.Com.](#) I semester (Part 1).
2. Semester system was introduced for [M.Com.](#) with a new course structure based on the course structure recommended by the U.G.C.
3. M.Phil. course was started for the first time. 17 students were admitted. In that, most of them are the lecturers of various degree colleges of Goa. This course was started without any infrastructure and the whole teaching load was taken by Professor S. M. Bijli, Head of the Department of in addition to the lectures to, the [M.Com.](#) classes and supervising the dissertations of Ph.D. students and also in addition to the administrative work of both Commerce and Deanship of the Faculty.

Two students were enrolled for Ph.D. during the session under the supervision of Professor S. M. Bijli.

4. *The* department in co-operation with the Institute of Chartered Accountant of New Delhi arranged *the* Seminar at Hotel Mandovi in August 1990 on "Contemporary developments in Accounting" in which Mr. B. Ramesh Lecturer in Commerce and Professor S. M. Bijli jointly presented a paper on Commerce Education in India with reference to Goa. The Seminar was inaugurated by Professor B. Sheikh AU, the Then Vice Chancellor of Goa University. A seminar on Rural Industrialisation in

co-operation with the Khadi and Village Industries Commission was organised and teachers of the Goa University Colleges and Lecturers from the Department of Commerce namely Dr. P. N. Reddy and Mr. Nandkumar Mekoth presented papers. The seminar was inaugurated by Dr. P. R. Dubhashi, the Vice-Chancellor of Goa Univ.

5. The results of [M.Com.](#) Old Course was satisfactory. The percentage of passing were 87% with eight first classes. In *the M.Com.* I and II Semester under the revised scheme, 88 candidates appeared and 57 secured first class. The result was 100%.
6. Due to financial constraints the Vice-Chancellor did not approved the visiting faculty comprising of Prof. of eminence. However, the department managed to request Dr. Masood Hassan, Professor of Business Economics, Delhi University who came to lecture to MMS students, who delivered lectures to M.Phil. and [M.com.](#) II Semester. Professor T. S. Reddy, Dean of the S. K. University, Anantapur delivered three lectures to [M.Com.](#) II Semester.
7. The students of [M.Com.](#) participated in games, sports, elocution contest and other extra-curricular activities and won the championship in football, cricket, elocution contest, music competition etc. The All Round Trophy of the Goa University for the best in sports, best in examination results, and in academic performance, best in debates, best in organising abilities and best in discipline was awarded to the Commerce Department. Its a matter of great satisfaction for the department to see that the students despite many odds were able to excel field of activity. I, as the Professor and Head of the Department and Dean of the Faculty, would like to place on record my appreciation of the excellent conduct of the students which is admirable. The details are as follows:

I) Prizes won in sports and games:

1. Inter-Faculty Cricket championship
2. Badminton (Men) Runners-up by Tiburcio gonsalves.
3. Table-Tennis (Men) (Singles) by Meenesh Hodarkar •
4. Carrom (Women-Singles) Runners-up by Sajani Nadkarni
5. Carrom (Mixed-doubles) by Shaikh Nazakat & Anupama Singh.
6. Chess (Women) Runners-up by Rashmi Lotlikar
7. Best Athlete of the year by Allwyn D'Costa
8. Best Goalkeeper and Fielder by Amol Navelkar
9. Best Athlete of the year Allwy D'Costa, [M.Com.](#) represented P.G. Centre of the University in Inter-Collegiate Athletic meet & Secured second place.
10. Dattaraj Thali, [M.Com.](#) I, represented Goa University Cricket team **in All India Inter University, West Zone Cricket competition.**

II) A. Prizes won in Singing Competition:

1. Konkani Language : 3rd Prize by Priya Desai
2. Marathi Language : 2nd Prize by Pravin Gaonkar
3. Hindi Language ~~3rd Prize~~
3rd Prize by Priya Desai.

B. Prizes won in Poster Competition 1. THEME: National Integration : 2nd Prize by Parvez Ahmed.

C. Miss Hazel Fernandes from [M.Com.](#) (Part I) was adjudged the "Best Youth Speaker" and also bagged 1st Prize at the Inter-Collegiate elocution competition held at M.E.S. College, Vasco.

D. Best Class of the year - overall championship - [M.Com.](#) Part I.

And the students of the department has also won a number of prizes in other cultural activities like La-Senhorita Fashion Parade, Mehfil-e-Jaam, La-Bamba, Music-Quiz, Eruptions and patch-patch.

8 Academic activities of the teachers of the Department

- i) Mr. B. Ramesh, Lecturer in the department submitted the synopsis for the Ph.D. thesis on "Productivity and Profitability of Public Sector Banks in India" at S K. University, Anantapur.
- ii) Mr. Nandkumar Makoth, Lecturer in the department submitted Preliminary synopsis of his Ph.d. thesis on "A comparative study of public and private transportation in goa" at University of Calicut.
- iii) Professor S. **M.** Bijli delivered his series of lectures to six orientation courses at the Academic Staff College on "Moral Values".
- iv) Professor S. M. Bijli, Mr. B. Ramesh, Dr. P. N. reddy, Mr. Nandkumar Mekoth delivered lectures as resource persons to the participants of the orientation.courses with Commerce background on subject like International Trade, Economic Growth and Planning, Financial Management, Entrepreneurial Management and Marketing Management at the Academic Staff College.
- v) Professor S. M. Bijli was invited to lecture at the Academic Staff College at Allahabad University and Vikram University, Ujjain, S. K. University, Anantapur, Aligarh Muslim University and Calicut University which he has to decline in view of pressure of work in the department, in the absence of teachers. He declined the examinership of many universities due to lack of time.
- vi) Professor S. M. Bijli was invited as an expert in the Selection Committee at Saurashtra University, Calicut University, Aligarh University, Vikram University and Allahabad University which he declined due to pressure of work.

9. Publications:

Professor S. **M.** Bijli published a series of articles on Moral Values, Conscience and Moral Character, Knowledge and Learning, Reason and Understanding, on Excellence, on Leadership and Society in the Navhind Times, Panjim Goa.

Professor S. M. Bijli was invited to present a paper on "self in Religion" at a seminar organised by the Department of Philosophy, Goa University and his paper was well received.

Mr. B. Ramesh is working on a U.G.C. Project on 'Manpower Planning and Development in Commercial Banks' which is to be completed by march 1992.

Dr. P. **N.** Reddy has submitted a Research Project on 'Critical Evaluation on the development of - Small Scale Industries' to the ICSSR, New Delhi.

Dr. P. **N.** Reddy published an article in Khadi Gram-Udhyog on Women Entrepreneurship in Goa - A pilot study. An article entitled "An Infant Industry" was published in the Indian Management.

10. The Overall discipline of the students have been exemplary. The teachers are punctual, the students are punctual with a seriousness of purpose and the ability of the teachers and students to maintain discipline both inside and outside the University has *been* commendable.

4.2 DEPARTMENT OF MANAGEMENT STUDIES

) Teaching Staff

Academic Session 1990-91.

- | | |
|--|--|
| (a) Prof. S. M. Bijli, M.A. (Econ.), M.Com. , L.L.B., D.N.D. (The Hague), Ph.D., M.R.E.S. | Head, Deptt. of Management Studies till 10.04.1991 Dean, Faculty of Commerce & Management Studies |
| (b) A. Sreekumar, B.Sc.(Engg.), M.B.A. Fellow of IIM, Ahmedabad | Reader, Department of Management Studies. Head, Department of Management Studies from 10.04.1991. |
| (c) Dr. J. B. Nadda, M.Com. , M.B.A., Ph.D. | Reader, Department of Management Studies. |
| (d) Mo. S. G. Hegde, B.Com. , M.B.A. | Lecturer, Department of Management Studies. |
| (e) Dr. Satish Kumar, M.B.A., Ph.D., F.D.P. IIM, Ahmedabad | Lecturer, Department of Management Studies (on leave at IIM, Ahmedabad for the Faculty Development Programme). |
| (f) Mr. Dayanand M. S. B.Com. , M.B.A. | Lecturer, Department of Management Studies. (Temporary: against the leave vacancy of Dr. Satish Kumar. |

| I & II sem. | Contributory Faculty | | |
|-------------|---|---|-----------------|
| S.No. | Name of the Faculty | Subject | No. of sessions |
| 1. | Mr. Mario Sequeira | Management Concepts | 25 |
| 2. | Mrs. P. Dhond | Business Law | 25 |
| 3. | Mr. V. V. Kamat and Mr. V. V. Navelkar | Introduction to Computers | 25 |
| 4. | | Computer Application & Information Systems | 25 |
| 5. | Mr. Mario Sequeira | Managerial Communication | 25 |

III and IV Semester

| | | | |
|-----|------------------------|--|----|
| 1. | Mrs. Maya Paooskar | Management Information & Computer Application | 25 |
| 2. | Mr. Datta Syamal Kumar | Industrial Relations | 25 |
| 3. | Mr. P. K. Lele | Industrial Relations | 25 |
| 4. | Mr. A. Sangoram | Indirect Taxes, MRTP & FERA | 25 |
| 5. | Dr. P. N. Reddy | Marketing Resea(ch | 25 |
| 6. | Mr. S. V. Raman | Tax Planning | 25 |
| 7. | Mr. B. Ramesh | Financial Planning (Case Studies) | 25 |
| 8. | Mr. Nandkumar Mekoth | Company Law | 25 |
| 9. | Mr. R. d. Kamat | Advanced Financial | 25 |
| 10. | Mr. A. Thakkar | International Marketing | 25 |
| 11. | Dr. Masood Hassan | International Finance | 25 |
| 12. | Mr. V. S. Hede | Financial Aspects of Project, Planning & Formulation | 25 |
| 13. | Mr. Vinay Raykar | Personnel Finance | 25 |
| 14. | Mr. Nandkumar Mekoth | Cost Systems | 25 |
| 15. | Dr. P. N.Reddy | Entrepreneurship Development | |
| 16. | Mr. Ranjan Gupta | Hotel Management . | 25 |

VISITING FACULTY

| S.No. | Name of the Faculty | Subject | No of Sessions |
|-------|--|----------------------------------|----------------|
| 1. | Prot Marsden Preece University of Wales | Entrepreneurship Education | 6 |
| 2. | Dr. Rajen Mehrbtra, Sandoz India, Ltd., Bombay | Management Education in India | 1 |

| | | | |
|-----|--|--|---|
| 3 | Dr. V. M. Nair Consultant, Mitsubishi Corporation | Project Management | 8 |
| 4. | Dr. V. Nath, Visiting Professor Centre for Policy Research, N. Delhi. | Urban Development | 8 |
| 5. | Dr. Kelkar, Apple Industries Ltd., Bombay. | Introduction to Computers | 2 |
| 6. | Ms. Renuka Satoskar | Computer Application | 4 |
| 7. | Mr. Vincent Rosario | | |
| 8. | Mr. Frederick Nazareth | Introduction to Computers | 3 |
| 9. | Mr. Tito Menezes | Computer Application | 1 |
| 10. | Brig. D'Lima | Leadership | 1 |
| 11. | Mr. Erasmo Sequeira | Relevance of Management for Non.industries sector | |
| 12. | Mr. George Ninan | Personnel Management | 1 |
| 13. | Mr. George Easaw | Materials Management | 1 |

IV) Details of Research Students:

| Name of the teacher (Research Guide) | Ph.D. by Research | |
|---|-------------------|--|
| | Full time | Part time |
| A. Sreekumar | | 1. Mr. S. G. Hegde 2. Mr. Vinay Raikar. |

V) Participation in Seminars:

A Sreekumar:

Participated in a Seminar on 'Future Industrial Scenario for Goa' organised by the Goa Chapter of Society for International Development (SID), at Hotel Mandovi, Panjim in the year 1990.

Participated as Observer/Rapporteur in a Semina ron 'Problems of Small Scale Industries of Goa' organised by the students of the department of Management Studies in collaboration with the Small Scale Industries Association of Goa, Jan. 11-12, 1991 at Kala Academy, Panji, Goa.

Participated as a Rapporteur in the Seminar on 'Rural Industrialisation' organised by the Department of Commerce of Goa University in collaboration with the Khadi and Village Industries Commission, Bombay held on 25th March, 1991 at Goa University, Goa.

Dr. Satish Kumar

Participated in UGC sponsored National Seminar on "Management Audit" organised by Kausali Institute of Management Studies Karnataka University, Dharwar from *June 7* to June 9, 1990.

Participated in Seminar on "Social Networking and Entrepreneurship" held at Indian Institute of Management, Ahmedabad on July, 5, 1990.

Participated in Seminar on "Entrepreneurship and Intrapreneurship" held at Indian Institute of Management, Ahmedabad on July 5, 1990.

Participated in Khadi & Village Industry sponsored seminar.

Mr. S. G. Hegde

Participated and presented a paper in the National Management Seminar held at Calicut from 6th-8th Dec. 1990.

Participated and presented a paper entitled "Education and Rural Industrialisation" in a seminar organised by Deptt. of Commerce, Goa University on 25th March, 1991.

Publications:

Mr. S. G. Hegde

Published a paper entitled "Managing Relationship and thereby Productivity - An Indian Perspective in Souvenir of the National Management Seminar held at Calicut from 6th to 8th Dec. 1990.

5.1 CENTRE FOR LATIN AMERICAN STUDIES

I) Visiting Teachers

Dr. Pedro J. Barbosa Monteiro was a Visiting Lecturer in Portuguese from January, 1991 to 10th July, 1991.

Documentation Officer

Archana Kakodkar, - B.Sc., M.A., M.Lib. Sc.

II) Research Project

- 1. Bibliography of Indian Writers on Latin America**
- 2. Bibliography of Indo-Brazilian Literature.**
- 3. Handbook of Latin America.**

III) Visitors **to the** Department:

1. Dr. R. L. Chawla Consultant
Centre for the Studies on Technology Trade
P-68, South Ext. - Part II, New Delhi-49.
2. Dr. R. Narayanan Professor,
Centre for American & West European Studies,
Jawaharlal Nehru University, New Delhi - 110 067.
3. Dr. Anirudh Gupta Professor,
School of International Studies,
Jawaharlal Nehru University, New Delhi - 110 067.
4. Dr. Abdul Nafey Assistant Professor,
Centre for American & West European Studies,
Jawaharlal Nehru University, New Delhi - 110 067.

IV) Participation in Seminars, Conferences, Workshops, etc.

Participated in the 5th seminar on History of Goa Jointly organised by Goa University and Goa Archives on Religions Traditions of Goa through the ages and a Symposium on India Angola Relations 19-20th Feb. 1991. Presented Papers -

"Sources for *the* Study of India - Angola relations".

Participated in the 2nd Seminar of Centre for Latin American Studies, 25th-26th Feb. 1991. Presented papers - "Latin American Library Co-operation, with current sources for the study of Latin America".

V) Publications:

1. Indo-Brazilian source Material in Goa : A Historical Survey; Purabhilekh - Puratatva, Journal of Directorate of Archives, Goa.
Vol. -8, No. 1, Jan-June -1990.
2. Review : Glimpses of Indian Polity, **by** Prof. Pradip Mhaske, Goa, 1990.
Gomantak Times, 20th Jan 1991 (Weekindex)
- 3 Jagatik Kirticha Mahan Gomantakiya Rasayan Shastradnya: Padmashri Raghunath Anant Mashelkar, Gomantak, 3rd March, 1991.
4. Bibliography of Books on Dnyaneshwar/Dnyaneshwari, Dnyaneshwar Saptashatabdi Samaroh, Maharashtra Parichaya Kendra exhibition 1 - 3rd Jan. 1991. (Mimeographed)

VI) Any other details:

Teaching :

Academic Counsellor - Indira Gandhi National Open University, Regional Centre, Margao.

Papers thought:

1. Library and Society
2. Information Science
3. Colan Classification (Practicals)
And Evaluation of Assignments for the above subjects.

5.2 CENTRE FOR WOMEN'S STUDIES

General

In February, 1988, under its VII plan, the University with the assistance of the Department of Sociology, made a proposal to the U.G.C. for a Centre for Women's Studies at the University, with the objectives of creating facilities for research, teaching and extension activities relating to women's problems. The U.G.C. approved the proposal in May, 1988. The Centre has started functioning under the charge of Shri S. R. Phal, Head Department of Sociology, from July, 1988.

2. Staff:

- | | |
|---|------------------|
| 1. Shri S. R. Phal Reader & Head Dept. of Sociology | Incharge |
| 2. Mrs. Sherin Antao M.A. Social Service (T.I.S.S.) | Research Officer |

3. Activities of the Centre:

1. Documentation:

The Centre is documenting the literature on women existing in different libraries in Goa.

2. Research Projects:

The Centre has completed a research project on "Women and Law in Goa".
The draft report of the project is ready.

4. Other Activities:

A major activity of the Centre during the year has been to play the role of a catalyst in forming a society of rural unemployed women called 'Goa Mahila Vikas Saunstha'. The society has been constituted to encourage, promote and implement all types of activities for socio-economic advancement of its members in the community at large especially socially and economically underprivileged women. The Centre for Women's Studies has played a Key role in forming the said society, establishing liaison and seeking guidance and assistance, from the Government and Non-Government bodies on behalf of the Goa Mahila Vikas Saunstha. The first project of this newly formed society is the management of the canteen at Goa University.

The Centre for Women's Studies organised a one-day Workshop cum Seminar on the theme 'The Girl Child' on 30th December 1990. The leaders of Women's Voluntary Organisations and women

activists from Goa were invited for the Workshop besides four resource persons. The resource persons gave talks on various aspects of the Girl Child such as nutrition, socialisation, education and health, Every talk was followed by a discussion.

The Research Officer of the Centre attended a National Workshop on "Social Cybernetics" at Delhi on April 19-20. The workshop was organised by IIT Delhi and DANIDA MISSION with a view to demonstrate the applicability of the cybernetic paradigm to women's studies.

The Research Officer of the Centre has had discussions with the Principal and selected staff members of Carmel College, Nuvem with a view to organising developmental programmes for women of surrounding villages with the active help and assistance of the students of Carmel College, Nuvem.

The Teacher-in-Charge of the Centre has held discussions with the Principal and selected staff members of Goa College of Home Science with a view to initiate an intensive programme to educate mothers regarding health, hygiene and nutrition in the villages of Bambolinn and Taleigao.

The Centre has taken up the research project namely "Women and the Law: A Preliminary study of Awareness and Impact Among Women in Goa". The project seeks to study the awareness and impact of the law on various categories of women namely, unmarried, widowed, separated and divorced belonging to three major religious groups Hindus, Christians, and Muslims. The sample for the preliminary study is 100.

At the time of writing this report 3 chapters relating to the above research project was finalised. The remaining 3 chapters of the study will be completed shortly.

CHAPTER -III

AFFILIATED COLLEGES AND INSTITUTIONS RECOGNISED BY THE UNIVERSITY

As stated earlier the Goa University began functioning w.e.f. June, 1985 when the Goa University Act, 1984 came into force in this state.

As on March 31st 1991 there were 27 affiliated colleges and 5 institutions recognised by the University. A list of these colleges and institutions as on that date appended as Annexure IX.

A brief report on the activities of various institutions is given in this chapter.

A - Colleges other than Professional

B - Professional colleges

C - Recognised institutions.

A-1 DHEMPE COLLEGE OF ARTS AND SCIENCE, PANAJI - GOA

The College was established in June, 1962 and was permanently affiliated to the Goa University from 1962-86 in the approved subjects leading to B.A. & B.Sc. degrees.

The College is run by the Dempo Charities Trust in a three storied building having 15 lecture rooms besides ample space to enable the college to conduct its curricular and extra-curricular activities.

Hostel facilities are also provided by the college separately for boys and girls. During the year under report, the number of male hostelites was 11 and that of female 22.

Details of Teaching Staff:-

Principal: Shri G. V. Nadkarni.

Teaching Staff:-

| Department | Designation | Number of Teachers |
|--------------------------|---------------|--------------------|
| a) Science stream | | |
| i) Mathematics | Lecturer | 4 |
| ii) Chemistry | Lecturer | 9 |
| | Demonstrators | 2 |
| iii) Physics | Lecturer | 7 |
| iv) Botany | Lecturer | 7 |
| v) Zoology | Lecturer | 7 |
| vi) Geology | Lecturer | 5 |

b) Arts Stream

| | | |
|------------------------|----------|---|
| i) English | Lecturer | 7 |
| ii) Economics | Lecturer | 2 |
| iii) Political Science | Lecturer | 1 |
| iv) History | Lecturer | 2 |
| v) Philosophy | Lecturer | 3 |
| vi) Marathi | Lecturer | 3 |
| vii) Psychology | Lecturer | 1 |
| viii) Hindi | Lecturer | 2 |
| ix) French | Lecturer | 1 |
| x) Physical Education | Lecturer | 1 |

Non-Teaching Staff:-

| | |
|-----------------------|----|
| i) Librarian | 1 |
| ii) Superintendent | 1 |
| iii) Senior Steno | 1 |
| iv) Accountant | 1 |
| v) Senior Clerk | 2 |
| vi) Laboratory Asstt. | 3 |
| vii) Store-Keeper | 1 |
| viii) Junior Clerk | 6 |
| ix) Class IV staff | 34 |

Enrollment and Result S.

| Course | Total enrollment | | | Percentage Result of Final year. | |
|----------|------------------|-------|-------|----------------------------------|-------------|
| | Boys | Girls | Total | Mar./Apr. '90 | Oct./Nov'90 |
| F.Y.B.A. | 49 | 110 | 159 | | |
| S.Y.B.A. | 45 | 106 | 151 | | |
| T.Y.B.A. | 37 | 125 | 162 | 63.38% | 29.72% |
| F.Y.B.Sc | 61 | 83 | 144 | | |
| S.Y.B.Sc | 59 | 64 | 123 | | |
| T.Y.B.Sc | 66 | 72 | 138 | 67.61% | 65.78% |
| | | | | Mar./Apr.'91 | |
| T.Y.B.A | | | | 64.48% | |
| T.Y.B.Sc | | | | 62.96% | |

Extra Curricular Activities**a) Sports:-**

This year the college participated in the various Goa University Inter-Collegiate Tournament/ Competitions and also some of our students represented Goa University in the various Inter University Tournaments.

In Goa University Inter-Collegiate Table Tennis Tournament our college men team emerged champions under the captainship of/ Shri. Arvind Mishra. In Volley-ball, our college women team won the championship under the captainship of Kum. Kalpana Garg. In Best Physique competition Shri Xavier D'Souza of S.Y.B.A Emerged Goa University Shri, who had earlier represented India

in the Mr. natural International Body Building Championship held at Nabesca - Japan and bagged 7th position in the middle men category.

b) N.C.C. :- (Navy Wing)

The total number of cadets enrolled this year were 50. Training was imparted in the different fields like Parade Drill, Seamanship, Ship-modelling, Boat pulling cum sailing and other adventure skills.

Naval Officer Lt. R. V. Sanvordekar successfully completed his third and final Refresher Course in INS Venduruthy Cochin for three weeks duration in May'90. Cdt. Captain Vidyadhar Bhagat attended the Advanced Leadership Camp at Vaizag in Oct '90. At the A.T. Camp held in Nov'90 at Foot Ball Stadium, Fatorda. Thirteen of our cadets participated. N.C.C. Day on 25th Nov,90 was observed with entertainment Programme by the cadets on the occasion.

N.C.0 (Army Wing)

80 cadets enrolled this year. The cadets were trained in various military subjects like foot drill, rifle drill, First-aid, civil defence, weapon training etc.

This year Annual Training Camp was held at Monte-de-Gurim. 25 of the cadets participated under the leadership of cadet Senior Under Officer Satyendra Nagvekar.

Senior Under Officer Satyendra Nagvekar was adjudged as best cadet for 89-90 and a rolling trophy was awarded to him.

N.C.C. Report (Girls' Wing)

60 cadets were enrolled this year out of which twenty were for the Naval Wing under the leadership of Cdt. Cpt. Sabat Branco and Army Wing under SUO Ujwala Desai. Cadets received training in various subjects as foot drill, signals, first-aid, training in home nursing, weapon training etc. Naval cadets were trained in ship modelling and boat pulling. Cadets actively took part in the extra curricular activities such as cultural, hikes, etc.

C) N.S.S.

- i) We conducted a Blood donation camp where our volunteers donated 24 bottles of blood to the Blood Bank of the Goa Medical College.
- ii) Our volunteers have helped in collecting donations for the Tuberculosis Association of Goa, Daman & Diu and The Red Cross Society.
- iii) Our volunteers have taken up college beautification programme in which the volunteers cleaned up the college campus and the areas surrounding the hostels. Under the Kitchen Garden Project, the college Garden was completely cleared and plants and trees were planted.

Principals Assessment of the performance of the college in the Academic and Curricular and Non-Curricular fields.

The performance of the college is satisfactory.

A-2 Smt. Paravatibai Chowgule Cultural Foundation's College of Arts, & Science, Eilargao - Goa.

Established in June, 1962 the College caters to instruction in the approved subjects leading to B.A. and B.Sc degree.

The College is managed by the Chowgule Education Society in its own building consisting of four independent blocks each with a hall and two bedrooms, plus one Block for the rector of the Hostel. The College playground has facilities for all major games like Cricket, Volley-ball, Basket-ball, Tennis, athletics etc.

Hostel facilities are provided only for boys.

Details of Teaching Staff:

Principal: Shri. V. R. Shrigurker, who is also lecturer in Economics

Department Teaching Strength:-

| Department | Designation | Number of Teachers |
|--------------------------------------|--------------------|---------------------------|
| A - Science Stream: | | |
| i) Physics | Lecturer | 8 |
| ii) Chemistry | Lecturer | 11 |
| iii) Botany | Lecturer | 6 |
| iv) Zoology | Lecturer | 6 |
| v) Mathematics | Lecturer | 4 |
| vi) Geology | Lecturer | 3 |
| B- Arts Stream: | | |
| i) English | Lecturer | 5 |
| ii) Economics | Lecturer | 4 |
| iii) Geography | Lecturer | 3 |
| iv) Political Science | Lecturer | 1 |
| v) History | Lecturer | 3 |
| vi) Logic | Lecturer | 2 |
| vii) Philosophy | Lecturer | 3 |
| viii) French | Lecturer | 1 |
| ix) Sanskrit Sociology | Lecturer | 2 |
| x) Marathi | Lecturer | 1 |
| xi) Hindi | Lecturer | 2 |
| xii) Computer Science | Lecturer | 3 |
| xiii) Director of Physical Education | Lecturer | 1 |
| Non - Teaching Staff: | | |
| i) Head Clerk | | 1 |
| ii) Junior Stenographer | | 1 |
| iii) Senior Clerk | | 2 |
| iv) Accounts Clerk | | 1 |
| v) Junior Clerk | | 2 |

| | |
|---------------------------|----|
| vi) Laboratory Asstt. | 4 |
| vii) Clerk Typist | 2 |
| viii) Librarian | 1 |
| ix) Laboratory Attendants | 13 |
| x) Library Assistant | 1 |
| xi) Class IV staff | 20 |
| xii) Jr. Programmer | 2 |

Extra-Curricular Activities:

a) Sports

Miss Elena Faleiro and Miss Fatima Godinho were outstanding in Goa University Team which won the second place in the All India Inter-University Women's Football Tournament Mr. Balmiro Andre was selected for Goa University Football Team for the 3rd year in succession and was the proud winner of the Gold Medal for the All India Inter-University Men Football Tournament. Mr. Seby Antao Attended the Indian Coaching Camp in Football at Bangalore.

In Athletics our college won the prestigious title at the **Inter-Collegiate** Athletics Meet for the Second year in succession. Shamimy D'Silva was declared as the Best Athlete of the Goa University. George Goes represented the Goa State Team for the Senior Nationals at Jammu.

Jude Cardoz represented the Goa University for 3rd time in succession and Suddin Goankar and Rajendra Prabhudesai were selected for the Goa State Junior Teams for Nationals in Cricket.

Our College won the first prize in Konkani and the third place in Marathi at the Inter-collegiate One Act Play Competition organised by Kala Academy Goa. Our students won the award Prizes at the Kala Academy Drama Festival: Laxman Parab - Best Direction (Konkani), Rupesh Kamat - Best Acting (Konkani), Rajesh Naik - Certificate of Merit for acting (Konkani). Third Prize in direction (Marathi), Vidyadutt Naik - Best Lighting (Konkani).

N.C.C.:

C.S.M. Parvina Naik was selected for specialised camp pre RO BLC in Rifle Shooting. P.O. Cadet Araujo Sandeep was selected by NCC Directorate Karnataka and Goa and sent to Delhi to participate in the R. D. Camp. Pre-RO. Camp. Our P.O. Cdt. Ghantwal Ramanand was given special training at Belgaum and Hospet. Cdt. Cpt. Pissulekar Anant attended the Advance Leadership camp at Vishakhapatnam. P.O. Cdt. Sawant Vivek also participated in the Parasailing Training Conducted at Belgaum. Lt. B.N. Hosurkar attended a NCC officers' Refresher Course in INC Venduruthy, Cochin. He stood 2nd in the merit list.

N.S.S.:

The following projects were undertaken during the academic year (a) Illiteracy survey of four wards namely, Wards Nos. 3,7, 8, and 12 of Margao Municipal Council was completed in three weeks. (b) Adult Education Centre was inaugurated by Mr. Louis Alex Cardoz, Hon'ble Minister of Social Welfare. (c) Fund Collection Programme for victims of Shiroda Canoe Disaster was undertaken Miss Medha Prabhu Malkarnekar participated in the Republic Day Parade at New Delhi. Miss Priya Sharma attended National Integration Camp at Berhampore (Orissa).

Teaching Staff:

| Category | Full-time | Part-time |
|--------------|-----------|-----------|
| Permanent | | |
| Probationary | | 57 |
| Temporary | | 10 |

Faculty Improvement Programme as implemented by the college:

Prof. S.M. Ambil of Geography Department has been deputed to Ph.D under faculty Improvement programme in the subject of Geography since January 1990.

Library:

| | |
|--------------------------------|--------|
| Total No. of Text Books | 33,776 |
| Total No. of Reference Books | 1,608 |
| Total No. of periodicals | 40 |
| Total No. of Academic Journals | 35 |

Statistical details regarding Teaching course and student:

| Course | First Year | | | Second Year | | | Third Year | | |
|--------------------|------------|-----|-----|-------------|----|-----|------------|----|-----|
| | M | W | T | M | W | T | M | W | T |
| ARTS (B.A) | 63 | 106 | 169 | 46 | 96 | 142 | 34 | 89 | 123 |
| SCIENCE (B.Sc.) | 120 | 102 | 222 | 71 | 70 | 141 | 78 | 60 | 138 |

PGDCA Men: 11, Women:10, Total:21.

Percentage wise result of the College

| YEAR | No. appeared | MARCH | | | | No. appeared | OCTOBER | | | |
|-----------|--------------|-------|----|----|-----|--------------|---------|---|----|----|
| | | I | I | P | T | | I | I | P | T |
| 1989 | | | | | | | | | | |
| F.Y.B.A. | 123 | 1 | 33 | 47 | 81 | | | | | |
| S.Y.B.A. | 88 | | 30 | 49 | 79 | | | | | |
| T.Y.B.A. | 112 | 4 | 17 | 18 | 39 | 34 | | 4 | 18 | 22 |
| F.Y.B.Sc. | 153 | 6 | 57 | 41 | 104 | | | | | |
| S.Y.B.Sc. | 87 | 10 | 51 | 19 | 80 | | | | | |
| T.Y.B.Sc. | 134 | 27 | 37 | 4 | 68 | 16 | 1 | 6 | 3 | 10 |
| 1990 | | | | | | | | | | |
| F.Y.B.A. | 216 | 5 | 55 | 67 | 127 | | | | | |
| S.Y.B.A. | 128 | 5 | 38 | 60 | 103 | | | | | |
| T.Y.B.A. | 156 | 4 | 48 | 57 | 109 | 48 | | 5 | 15 | 20 |
| F.Y.B.Sc. | 173 | 13 | 59 | 43 | 115 | | | | | |
| S.Y.B.Sc. | 132 | 15 | 82 | 10 | 107 | | | | | |
| T.Y.B.Sc. | 154 | 61 | 56 | 03 | 120 | 31 | 6 | 8 | 8 | 22 |

1991

| | | | | | |
|-----------|-----|----|----|----|-----|
| F.Y.B.A. | 174 | 74 | 43 | 01 | 118 |
| S.Y.B.A. | 137 | 5 | 36 | 59 | 100 |
| T.Y.B.A. | — | — | — | — | — |
| F.Y.B.Sc. | 161 | 9 | 75 | 32 | 116 |
| S.Y.B.Sc. | 135 | 9 | 76 | 35 | 120 |

Principal's Assessment of the performance of the college in the Academic and Curricular and Non-curricular fields:-

Over all performance of the college in the Academic and Curricular and Non-Curricular field is SATISFACTORY.

A-3 St Xavier's College, Mapusa - Goa.

This is a Diocesan College which was established in June, 1963 by the Archdiocese of Goa, and Daman. It caters to instruction in the approved subjects leading to B.A. and B.Sc. degree.

Till May, 1968 the college was housed in High School building at Bastora, after which it was shifted to its premises in the new spacious campus at Mapusa. These premises consist of three blocks one each for Science, Arts, and administrative cum teaching activities. There are 19 classrooms besides other spacious rooms wherein various curricular and extra-curricular activities are being conducted. The college has its own play-ground occupying an area of 12,000 sq. mts. Facilities for various types of games are being provided by the college. There is also a hostel for boys near the College and a hostel for girls which is located at Corlim. At present 55 students are provided with hostel accommodation.

Details of Teaching Staff:

Principal: Rev. Fr. Nicolau G. Pereira who is also lecturer in Chemistry.

| Department | Designation | No. of teacher |
|----------------------------|--------------------|-----------------------|
| A - Science Faculty | | |
| i) Chemistry | Lecturer | 5 |
| ii) Physics | Lecturer | 5 |
| iii) Life Science | Lecturer | 2 |
| iv) Microbiology | Lecturer | 4 |
| v) Mathematics | Lecturer | 4 |
| vi) Biochemistry | Lecturer | 1 |
| B-Arts Faculty | | |
| i) Economics | Lecturer | 1 |
| ii) Commerce | Lecturer | 2 |
| iii) History | Lecturer | 1 |
| iv) Philosophy | Lecturer | 2 |
| v) English | Lecturer | 2 |
| vi) Psychology | Lecturer | 3 |
| vii) Hindi | Lecturer | 1 |
| viii) Marathi | Lecturer | 1 |

- ix) French
- x) Sanskrit

Lecturer
Lecturer

1 (part time)
1

Non Teaching Staff:-

| | |
|-----------------------------------|----|
| i) Superintendent | 1 |
| ii) Head Clerk | 1 |
| iii) Clerks | 5 |
| iv) Librarian | 1 |
| v) Director of Physical Education | 1 |
| vi) Class IV staff | 12 |

Statistical details regarding teaching course and students:-

| Branch of study | Degree to be awarded | Duration of degree course | No. of students 1990-91 (Sex wise) | | | Total |
|-----------------|----------------------|---------------------------|------------------------------------|---------|---------|-------|
| | | | 1st yr. | 2nd yr. | 3rd yr. | |
| Arts | B.A | 3 yr. | | | | |
| | | Boys | 60 | 54 | 39 | 153 |
| | | Girls | 112 | 93 | 105 | 310 |
| Science | B.Sc. | 3 yrs. | | | | |
| | | Boys | 42 | 47 | 40 | 129 |
| | | Girls | 38 | 34 | 35 | 107 |

Faculty improvement Programme - A 3 days Seminar on the theme Academic Excellence and Motivation for learning". All Faculty members attended this seminar.

Library:-

| | |
|--------------|--------|
| i) Books | 28,859 |
| ii) Journals | 45 |

Extra Curricular activities:-

The students participated very actively in various cultural associations like debates, symposia, essay, poetry, singing competitions, science exhibition etc.

NCC besides the usual activities like parades, camps, carry out, tree plantation, social work, hospital visits, literacy drive, various competitions, personal cleanliness, and sanitation, education to slum dwellers. Sports is promoted in various modalities. Students participated in Inter-Collegiate competitions and Athletics. Our college secured first place in the Inter-Collegiate singing competition in the Western category organised by the Goa university. First prize in One Act Play (English Section). Individual prizes of Kale Academy in Konkani and Marathi.

Percentage - wise result of the college in respect of the Final year:-**Examination**

| April '91 | No. of students appeared. | | No. of students passed. | |
|-----------|---------------------------|-------|-------------------------|-------|
| | Boys | Girls | Boys | Girls |
| T.Y.B.Sc. | | | | |
| T.Y.B.A. | 47 | 38 | 33 | 32 |
| | 48 | 118 | 27 | 78 |

Oct'90

| | | | | |
|-----------|----|----|---|----|
| T.Y.B.Sc. | 7 | 12 | 5 | 9 |
| T.Y.B.A | 17 | 36 | 5 | 16 |

Principal's Assessment of the performance of the college in the Academic and Curricular and non-Curricular fields:-

This is the third consecutive year that students stood first class first in B.A. course. This year one candidate stood third on the Merit List. Likewise in B.Sc. Course first class first, this year and last two consecutive years students secured second rank.

A-4 Dempo Charities Trust' Srinivassa Sinai Dempo Collage of Commerce & Economics, Altinho, Panaji - Goa

This Collage, established in June 1966 and is run by the Dempo Charities Trust import instructions in the approved subjects leading to B. Corn. degree. The Institution is located at Altinho, Panaji and functions in a rented building belonging to the Govt. of Goa.

Besides 8 classrooms, the collage building accommodates its office, library, reading rooms ect. In the extra - curricular filed, the collage provides facilities for indoor games like volley-ball, football, basket-ball, hockey and athletes for which Panaji Gymkhana ground and the Govt. Ground at Campala, are being made use of.

Details of Teaching staff :-

e
Principas Shri D. S. BhAde, who is also lecturer in English.

Teaching staff :-

| Category | Full-time | Part-time |
|-----------------|------------------|------------------|
| Permant | 10 | 3 |
| Probationary | | |
| Temporary | | 2 |

Departmentwise Teaching Strength

| | Department | Designation | No.of Teachers |
|-----|------------------------|--------------------|-----------------------|
| | i) English | Lecturer | 1 |
| ii) | Economics | Lecturer | 3 |
| | iii) Geography | Lecturer | 1 |
| | iv) Commerce | Lecturer | 2 |
| | v) Maths, Statistics | Lecturer | 1 |
| | vi) F. C. & Indl. | Lecturer | 1 |
| | Phychology | | |
| | vii) Accountancy | Lecturer | 4(1temp.) |
| | viii) Business Law | Lecturer | 1 Temp. |
| | ix) Physical Education | Lecturer | 1 |

Details of Non-Teaching Staff

| | | |
|---------------------|---|---|
| I) Librarian | — | 1 |
| II) Superintendent | — | 1 |
| III) Head Clerk | — | 1 |
| IV) Senior Clerk | — | 1 |
| V) Junior Clerk | — | 3 |
| VI) Steno-Typist | — | 1 |
| VII) Class IV Staff | — | 6 |

Library:-

| | |
|---------------------------------|-------|
| Text Books | 4965 |
| Other Books including reference | 11653 |
| Periodicals | 12 |
| Academic Journals | 38 |

N.C.C., Sports, Debates, Cultural Activities, NSS Educational and Extension works etc.

Cultural and literary activities:-

As a part of the National Environment month an essay competition was organised for college students on the subjects "Environment Protection"

Our annual inter-collegiate elocution competition for late Dr. Y.V. Lawande and late Shri. Vasant S. Bharne Memorial Rolling shields was held on 19th January 1991.

Our students, Shri Umakant Sardesai of T.Y.B. Corn, Secured second prize in the All Goa competition in the original story telling. In the other category of story telling he secured consolation prize. In the Essay competition organised by the holy Cross Ex.students association, Siolim, our student Shri. Holy Cross Ex. Students Association, Siolim, our student Shri. Tennyson Fernandes was awarded consolation prize.

Sports Achievement of student 1990-91

- | | |
|----------------------|-----------|
| 1. Volley-ball (Men) | Champions |
| 2. Swimming (Men) | Champions |

The following teams reached the semi-finals

1. Cricket (Men)
2. Basket-Ball (Men)
3. Table-Tennis (Men & Women)

Athletics

Our performance at the Inter-Collegiate Meet was satisfactory.

1. Mr. Shivadatt Shetty secured 1st place and IInd place in Shot put and Discuss Throw.
2. Mr. Arun Gaonkar secured IIIrd place in 10,000 mts. Running
3. Mr. Prashant Raithatha secured IIIrd place in Hammer Throw.
4. Mr. Naresh Chavan secured IIIrd place in power lifting.

The following players from our college were selected to represent Goa University in various games.

- | | | |
|----------------------|-----|---|
| 1. Foot-Ball (men) | (1) | Augusto Morais and a member of University Champions Team 1990-91. |
| 2. Basket-Ball (men) | (1) | Juseph Fernandes |
| | (2) | Gregory D'Silva |
| 3. Cricket (men) | (1) | Jaswal Dinesh Kumar |
| | (2) | Vinay Wagle |
| | (3) | Ramkrishna Mangeshkar |

Mr. Salgaonkar Shailen was selected for Senior National Hockey tournament 1990-91.

Mr. Jayesh Shetty was included in players in Inter-Collegiate Cricket Tournament 1990-91 and also was a Ranji player.

N.S.S.:-

As in the past our N.S.S. volunteers have engaged themselves in the activities involving creative and constructive social work. The academic year started with participation of volunteers in social forestry programme of Tree plantation at places like Ela Farm, Old Goa, Parvari and Dona Paula. Participation in immunization project under health, education and teaching project giving free instruction to poor, needy and deserving students in the vicinity were the land marks of this year's activities. Volunteers took to cleaning projects at Mala, Bishops' palace, Altinho, Pundalik Temple, Parvari etc. Blood Donation project evoked very good response and volunteers also collected funds for the tuberculosis Association by selling T.B.Seals.

The special camping programme was held at Hasapur of Pernem Taluka for 10 days. Construction of W.C. footpath and reconstruction of foot-ball ground according to international norms were the major projects taken up during the camping period. Students also took a socio-economic survey of the villagers and a two-days health awareness camp was organised for the children and women of the village.

Shri. Diresh Shah and Kum. Karuna Wagle attended the Leadership Training Camp held by the University.

Shri. Joaquim Oliveira and Kum. Sharayu Kavelekar were adjudged as the best N.S.S. volunteers of the year 1990-91.

Statistical Details regarding Teaching Course and students:-

| Class | Boys | Girls | Total |
|------------|------|-------|-------|
| F.Y.B.Com | 149 | 121 | 270 |
| S.Y.B.Com, | 111 | 107 | 218 |
| T.Y.B.Com. | 136 | 128 | 264 |
| | | | 752 |

Percentage-wise Result of the College:- March/April'90

| No. of students appeared | | | No. of students passed | | | Percentage |
|--------------------------|-------|-------|------------------------|-------|-------|------------|
| Boys | Girls | Total | Boys | Girls | Total | |
| 127 | 132 | 259 | 80 | 82 | 162 | 62%0 |

Oct./Nov'90 '

| | | | | | | |
|-----|-----|-----|----|----|-----|-----|
| 44 | 36 | 80 | 19 | 21 | 40 | 50% |
| 130 | 119 | 249 | 68 | 54 | 122 | 49% |

Principals' Assessment of the performance of the college in the Academic and Curricular and Non-Curricular fields:

The performance of the College in the curricular as well as co-curricular activities was quite satisfactory; but seminars, workshops of the teachers could not be arranged as much as desired.

A-5 Carmel college of Arts & Science for Women, Nuvem-Goa.

The College was established in the year 1964 to impart instruction in the approved subjects leading to B.A.m B.Sc., and [B.Com.](#) degrees. Run by the Apostolic Carmel College Education Society, the institution is exclusively meant for women, it has its own building having 12 lecture and 8 tutorial rooms, besides other space to carry out its administrative. Curricular and facilities for sports like athletics, basketball, volley-ball, tennikoit, table tennis etc. No hostel facilities are provided by the institution.'

Details of Teaching Staff:-

Principal: Sr. M. Rosanne, A.C.

a) Designationwise

| | |
|-------------------------|----|
| i) In Science Stream | |
| Sr. Lecturers | 6 |
| Lecturers. | 11 |
| ii) In Arts Stream | |
| Principal | 1 |
| Vice Principal | 1 |
| Sr. Lectueres | 3 |
| Lecturers | 7 |
| iii) In Commerce Stream | |
| Lecturers | 2 |

b) Status Wise

| Status | Full time | Part time | Lecture basis |
|---------------|------------------|------------------|----------------------|
| Permanent | 20 | — | |
| Probationary | — | — | |
| Temporary | 12 | 1 | 3 |

Details of Non-Teaching Staff

| | |
|---------------------------|----|
| (i) Office Superintendent | 1 |
| (ii) Librarian | 1 |
| (iii) Accountant | 1 |
| (iv) Lab. Attendant | 5 |
| (v) Lab. Assistant | 1 |
| (vi) Lower Division clerk | 12 |
| (vii) Class IV staff | 6 |

Statistical details regarding Teaching course and students

| Branch of study | Degree to be awarded | Duration of course | No. of Student in 1990-91 (Sex-wise) | | | Total |
|-----------------|----------------------|--------------------|--------------------------------------|---------|---------|-------|
| | | | 1st yr. | 2nd yr. | 3rd yr. | |
| Arts | B.A. | 3 yrs. | 118 | 94 | 101 | 313 |
| Science | B.Sc. | 3 yrs. | 69 | 44 | 35 | 148 |
| Commerce | B.Corn. | 3 yrs. | 78 | 63 | 54 | 195 |

Percentage-wise results of final year

| Faculty | March/Apr. '90 | March/Apr. '91 | Oct./Nov. '90 |
|---------------|----------------|----------------|---------------|
| B.A. | 74% | 72.28% | 60% |
| B.Sc. | 100% | 100% | |
| <u>B.Com.</u> | 42% | 40.08% | 42.85% |

Extra curricular activities

a) Sports

Various facilities were provided to do better in the fields of sports. The students participated in games like basketball, volley-ball, badminton, table tennis, tennikoit, athletics etc. The college has provided grounds for these games.

b) Cultural activities

The students always participate in activities like All India Radio programmes, Elocution and Essay competitions, Quiz programmes, debates etc. at the Collegiate and Inter-Collegiate level and are awarded various prizes in this field.

c) N.C.C.

The N.C.C. unit of the college functions well under the guidance of the person-in-charge. Regular parades are held twice a week. Students participate actively and keenly in various activities and in the annual camp.

d) N.S.S

The number of volunteers enrolled were 130. the following activities were envisaged and carried out by the unit:-

1. Service to the needy and poor students of the Nuvem Village.
2. Tuitions to the needy and poor students of the Nuvem Village.
3. Campus cleaning and evaluation meetings.
4. Visits to Hospicio to assist the Nursing staff/help the patients.
5. Stitching of school uniforms for the poor and needy students of the village school.

One of the volunteers was deputed for a National Integration camp at Beharampur in Orissa. They also attended a Central Leadership camp at Mollem.

e) Library

| | |
|----------------------|--------|
| Periodicals/Journals | 70 |
| Books | 14,120 |

A-6 Murgaon Education Society's College of Arts & Commerce, Zuarinagar - Goa

The College established in June 1972 in run by the Murgaon Education Society and impart instruction in the approved subjects leading to B.A. and [B.Com](#) degrees.

The Society runs the institution in its own two-storeyed building which has eleven lecture rooms, three tutorial rooms and other requirenients needed for its administrative, curricular and extra-curricular activities. There is also a playground, located in the college campus where facilities and provided for indoor and outdoor games. The college has, however, no hostel facilities.

Details of teaching staff:-

Principal; Shri Madhav S. Kamat, who is lecturer in Economics

Departmentwise teaching Staff:-

| Department | Designation | No. of Teacher |
|-------------------------------------|-------------|----------------|
| I) Economics | Lecturer | 4 |
| ii) English | Lecturer | 1 |
| iii) Hindi/Marathi | Lecturer | 1 |
| iv) Maths/Statistics | Lecturer | 1 |
| v) Psychology/Phil | Lecturer | 2 |
| vi) Political Science | Lecturer | 2 |
| vii) Geography | Lecturer | 1 |
| viii) Accounts | Lecturer | 3 |
| ix) Business Management | Lecturer | 2 |
| x) Sociology | Lecturer | 2 |
| xi) Law | Lecturer | 1 |
| xii) Physical Education | Lecturer | 1 |
| xiii) Political Science & Sociology | Lecturer | 2 |

Details of non-teaching staff.

| | |
|-------------------------------|---|
| i) Superintendent | 1 |
| ii) Librarian | 1 |
| iii) Library Attendant | 2 |
| iv) Dy. Accountant/Head Clerk | 1 |
| v) Stenotypist | 1 |
| vi) LDC | 1 |
| vii) UDC | 2 |
| viii) Class IV staff | 6 |

Statistical details regarding Teaching Courses and students.

| Degree to be awarded | Duration of degree courses | No. of Students in 1990-91 (Sex-wise) | | | | |
|----------------------|----------------------------|---------------------------------------|-----|------|-------|-------|
| | | F.Y | S.Y | T.Y. | Total | |
| B.A. | 3 Years | Boys | 145 | 74 | 78 | 297 |
| | | Girls | 108 | 79 | 61 | 248 - |
| | | | 253 | 153 | 139 | 545 |

| | | | | | | |
|--------------|---------|-------|-----|-----|----|-----|
| <u>B.Com</u> | 3 Years | Boys | 45 | 37 | 31 | 113 |
| | | Girls | 73 | 68 | 47 | 188 |
| | | | 118 | 105 | 78 | 301 |

Percentage-wise Results:-

| | | | |
|-----------|------------|-----------|------------|
| | March 1990 | Oct. 1990 | March 1991 |
| T.Y.B.A. | 79% | 58% | 78% |
| T.Y.B.Com | 45% | 48% | 55% |

Library:-

| | |
|------------------------|-----|
| No. of Text books | 367 |
| No. of Reference Books | 858 |
| No. of Periodicals | 63 |
| Academic Journals | 37 |

Extra Curricular activities:-

a) N.C.C.

Some cadets participated in Republic Day Parade at Delhi, and few successfully completed adventurous cycle expedition from Vasco to Pune. The college campus was the venue for the 600 strong All Goa NCC Naval wing training camp for 10 days in the month of Nov. 89. At this camp the cadets won prizes for cross country running & Elocution competitions. The College has Army, Navy and Girls NCC wings.

b) Sports.

Some students won gold medals at University Sports meet and represented Goa University, Goa State and India. A student represented Goa University at the All India Inter-University, Inter Zonal football Tournament.

c) NSS

It undertook a massive fund raising programme for the benefit of Indian Red Cross, Goa bench. The NSS Volunteers have done an excellent job of watering and protecting 1000 trees planted on 25 acre college campus under the social programme.

A-7 Vidya Vikas Mandal's Shree Damodar College of Commerce and Economics, Margao - Goa.

The college was established in June 1973 to impart instructions in the approved subjects leading to [B.Com](#) degree. The college is run by the Vidya Vikas Mandal, Margao.

1. Accommodation (class Room)

1. College building belongs to the society which runs the college
2. The ownership of the building is with the society.
3. The land of the building is on leasehold

2. Teaching staff:

1. Number of the teaching Staff:

| Category | Full-time | Part-time |
|--------------|-----------|-----------|
| Permanent | 13 | 07 |
| Probationary | | |
| Temporary | 03 | |

3. Details about the Faculty improvement Programme as implemented by the college.

1. Prof. Mrs. Meenaxi Gedam attended the Orientation course organised by Academic College of Goa Univ.
2. Prof. Mrs. Nirmala Gopinath, prof. Miss Florence Rebello and Prof. Mrs, Meenaxi Gedam attended a Workshop cum Seminar on Evaluation Techniques organised by the Directorate of Education in collaboration with the committee of Principals of Goa Colleges at M.E.S. College.
3. Prof. S.B. Mulay and Prof. B.G. Nayak attended NSS Refresher course at TISS, Bombay.
4. Prof. G.M. Prabhudesai attended a Seminar on National Literacy Mission at Cuttak organised by AIFUCTO & Orissa Teachers Associations.
5. Prof. R.T. Virkar and Prof. G.M. Prabhudesai attended an International Seminar on Problems of Women teachers organised by AIFUCTO & FISE at Vishkhapatnam.
6. Prof. Mrs. Meenaxi Gedam and Prof. Mrs. N. Gopinath registered for Ph.D. & M.Phil respectively.
7. Prof. A.R. Neelgar successfully completed the translation of Mritinujay a famous Marathi Novel into Kannada.
8. Prof. R.B. Nair was nominated by the Govt. of Goa on the Advisory Board for 2nd All India Survey of Educational Administration.
9. Prof. V. G. Patil attended Refresher course in Mathematics of Academic staff College, Goa Univ.

4. Details about Teaching Staff:-

Principal: D.V. Borkar who is Lecturer in Commerce.

| Department | No. of Lecturers |
|----------------------------------|------------------|
| Commerce | 3 |
| Business Management | 1 |
| Economics | 5 |
| Mathematics & Statistics | 2 |
| Accounts | 6 |
| Business Law | 2 |
| Geography | 1 |
| English | 1 |
| English & Business Communication | 1 |

5. Non-Teaching Staff:-Detail of the Library and

all other Non-teaching Staff:-

| Designation | Number |
|-----------------------|---------------|
| Office Superintendent | 1 |
| Accountant | 1 |
| Jr. Stenographer | 2 |
| Library Assistant | 1 |
| U.D.C. | 2 |
| L.D.C. | 1 |
| Peon | 5 |
| Sweeper | 2 |
| Watchman | 1 |

6. Library: Total number of text / reference books / periodicals / Academic journals in the Library.

| | |
|--------------------------|------|
| Total No. of Books | 8249 |
| No. of Reference Books | 4577 |
| No. of text Books | 2334 |
| No. of Periodicals | 45 |
| No. of Academic journals | 28 |

7. N.C.C., Sports, Debates, Cultural Activities, N.S.S. Educational and Extension works etc.

N.C.C.:-

P.O. Cadet Thomas Pereira attended the para sailing cadre and demonstration held St Belgaum during May'90

Cadet Jaideep Naik, Cadet Gleeson Fernandes, Cadet Vijay Gomes, Cadet Bonifacio Rodriguese attended the Pre-R.D. camps held at Belgaum, klospet, Bijapur and Bangalore during August and Oct/Nov & Dec '90.

Ldg. Cdt. Reginaldo Silva and Ldg. Cdt. Premjit Dias attended the NAU SAINIK Camp held at Cochin during Oct/Nov'90

Cdt. Vijay Gomes and Cdt. Gleeson Fernandes attended the specialised Boat Pulling and sailing camp held at Udipi - Mangalore during Oct. '90.

Cdt. Captain Sanjeev P.Vasta won the IInd best place in the Best Drill Competition and Ldg. Cdt. Rajesh Balkrishna bagged the First prize in the English General Knowledge Quiz Competition held during the A.T.C. '90

This year as many as 22 cadets donated blood to G.M.O Blood Bank during Sept. '90/

Cadet Fernando Judas D'Costa emerged as the Best Firer of the Division during 1990-91.

Sports:-

The College organised All Goa Inter Collegiate Football tournament at 3 MTR Military ground

Navelim, for Men & Women. The college Men Football team became runners up.

Inter Collegiate sports organising committee appointed Shri Sudhaker Naik as Manager of Goa University Football team to participate at Inter University and also to coach Goa. Univ. Football team at Margao.

Eight players were selected for Goa University Football team to participate in the Inter University Football tournaments of 1990-91.

The college won the Basket-ball, Cricket and Cross Country championships during the year at the Inter-Collegiate tournaments.

Mr. Manoj Hede won weight Lifting/Power Lifting Gold Medal. The college won Silver Medal at the Inter Collegiate Tennikoit Tournament.

Cultural Activities:-

The Cultural Union of the college was inaugurated at the hands of Dr. Ajay Vaidya, a prominent actor and director on Goan state.

During the course of the year, the union conducted the following competitions.

1. Prepared Elocution Competition
2. Annual Poetry competition
3. Story telling competition.
4. Late Mrs. Leelabai Sapute Memorial All Goa Poetry Comp.
5. All Goa Inter Collegiate Bene Trophy Quiz competition.
6. Extempore Elocution competition
7. Drama acting competition
8. Singing competition
9. On the Spot essay competition
10. Written Quiz competition
11. All Goa. V. N. Kamat Trophy Best Magazine competition

The students participated in a number of competitions organised by different Institutions and won first prize in the following:-

1. Kala Academy One Act Play competition
 - i) First Prize for best acting Subhangi Sawaikar
 - ii) FirstPrizeforbestdirection Prasad Loliengar
2. Melody Makers Poetry competition & Khandola College Poetry Competition
 - i) First Prize Miss Smita Hede
3. L.I.C. Essay competition
 - i) First Prize Mr. Piyush Jaiswal
4. **M.P.** Kendra Story Telling competition and All Goa Jaycees Elocution competition.
 - l) First Prize Miss Shubhangi Sawaikar
5. **P.E.S.** College Inter Collegiate One Act Play competition
 - i) FirstPrizeForaction Mr.Hema Pelapkar & Mr. Dattaprasad Agni

ii) First Prize for direction

Prof.S.B. Mulay

6. Saraswati Vachan Mandir, Veling - AU Goa Drama competition

i) First Prize for the group

- Miss Hema Palapkar

N.S.S:-

In all 390 volunteers completed 120 hours during the academic year 1990-91. They undertook the following projects.

- i) Blood Donation
- ii) Hospital work
- iii) Fund raising
- iv) Campus
- v) Illiteracy Survey
- vi) Adult education
- vii) Library
- viii) Coaching weaker students
- ix) Panchayat
- x) Health Centres.

About 35 Volunteers donated blood and many more were enlisted as volunteers donors so that they can be contacted when blood is needed.

The volunteers have collected a sum of Rs. 20,000/- for Lakshishwas, the trust which runs a school for physically handicapped children.

This year two camps were organised. The Y.F.R.R. Camp began at Loliem. They were involved in the work of extension of playground of the local school.

The second camp was organised during the X'mass vacation. The main projects undertaken during this camp were construction of approach road and desalting of the tank. It was very important educating experience for the 70 campers who made the camp successful through their hard work, discipline and their interest in community service.

8. Statistical details regarding Teaching Courses and students:

| Branch of study | Degree to be awarded | Duration of degree course | No. of student in 1990-91 | | | |
|-----------------|-----------------------|---------------------------|---------------------------|------|-------|-------|
| | | | 1st | IInd | IIIrd | Total |
| Commerce | B.Com | 3 Yrs. | | | | |
| | | Boys | 193 | 237 | 220 | 650 |
| | | Girls | 167 | 187 | 154 | 508 |
| | | Totals | 360 | 424 | 374 | 1158 |

9. Results of the college percentagewise in respect of the final year University in different subjects (Results of the examination of March-April 1990 and Oct-Nov 1990)

| Examination | No. of students appeared. | | | No. of Students passed. | | |
|---------------------------|---------------------------|-------|-------|-------------------------|-------|-------|
| | Boys | Girls | Total | Boys | Girls | Total |
| Held in April 1990 | | | | | | |
| T.Y.B.Com | 280 | 260 | 540 | 133 | 133 | 266 |

Held in Oct. '90

| | | | | | | |
|-----------|------|-------|-------|------|-------|-------|
| T.Y.B.Com | Boys | Girls | Total | Boys | Girls | Total |
| | 110 | 99 | 209 | 34 | 36 | 70 |

Held in April '91

| | | | | | | |
|-----------|-----|-----|-----|----|----|-----|
| T.Y.B.Com | 206 | 162 | 368 | 74 | 76 | 150 |
|-----------|-----|-----|-----|----|----|-----|

A-8 DYNANPRASARAK MANDAL'S V.N.S BANDEKAR COLLEGE OF COMMERCE, ASSAGO - GOA.

The College was established in June 1974 to impart instruction in the approved subjects leading to the [B.Com](#) degree.

The College is run by the Dnyanprasarak Manda.

I. Accommodation (Class Rooms)

1. The College building belongs to the society which runs the College.
2. The ownership of the building is with the society.
3. The land of the building is on freehold.

II. Teaching staff:

| Category | Full-Time | Part-time | Lecture basis |
|--------------|-----------|-----------|---------------|
| Permanent | 13 | 5 | |
| Probationary | | — | |
| Probationary | | — | |
| Temporary | 7 | 1 | 2 |
| Ad hoc | | 2 | |

III. Details of teaching staff (Beginning with Principal)

Prof. G. G. Mayekar is the principal of the college from 25/3/91 to 20/4/91. He is teaching Marathi.
Prof. Edward J. D'Lima is officiating principal from 9/7/90 to 20/4/91.

| Sr. No. | Department | Designation | No. of teachers |
|---------|------------------|-----------------|-----------------|
| 1. | Economics | Lecturer | 3 |
| 2. | Statistics | Lecturer | 1 |
| 3. | Commerce | Lecturer | 6 |
| 4. | History (F.C.) | Lecturer | 2 |
| 5. | English | Lecturer | 2 |
| 6. | Geography | Lecturer | 2 |
| 7. | Mathematics | Lecturer | 2 |
| 8. | Accountancy | Lecturer | 5 |
| 9. | Business Law | Lecturer | 2 |
| 10. | Philosophy | Lecturer | 1 |
| 11. | Sports | Sports Director | 1 |
| 12. | Library | Librarian | 1 |
| 13. | Computer Science | Lecturer | 1 |

IV Details of Non-Teaching Staff:-

| Sr. No. | Designation | No. of Officials |
|---------|-----------------------|------------------|
| 1. | Office Superintendent | 1 |
| 2. | Head Clerk | 1 |
| 3. | Senior Clerk | 2 |
| 4. | Junior Clerk | 3 |
| 5. | Peon | 5 |
| 6. | Library Attendant | 3 |

V. Library:

Total number of text-books/reference books/periodicals/academic journals in the library as on 20/4/91.

Total number of text-books is 7494 and academic journals are 27. Non academic journals 10 others 11.

Miss Bhobe Mangala and Mr. Rodrigues Agnelo Jose of the T. Y. B. Com class have been adjudged BEST READERS of the year 1990-91

Details about N.C.C., Sports, Debates, Cultural activities, N.S.S Educational and Extensions works etc.

Sports:

The college has a playground and measuring 28,500 sq. mts located within the college campus. It has special Indoor hall for Table Tennis and Badminton.

The college participated in all the tournaments. In various games and sports of the first and second phases of the year 1990-91 conducted by the Goa University. In Athletics, the boys students won the Gold Medal in 4 x 100 mts relay. In addition to this, Athletics they won Gold, Silver and bronze medals.

Mr. Narayan Kambli represented the Goa State at the Inter-State Ramachandrao Cricket Trophy and also represented Goa State at the Inter-State Subyha Pilly Cricket Trophy at Bangalore.

Theiphane Moonjapilly represented Goa State at the Inter-State Senior National Men Hockey Championship held at Jammu.

Our students participated in weight-lifting, Power-lifting and best physique competitions, Athletics and won the different places.

Merit certificates and awards are given as an incentive to the winners to Inter-collegiate tournaments of Goa University and special prizes and certificates are awarded to sportsmen and women representing Goa State and Goa University at Inter-State and Inter-University games.

N.S.S.

The N.S.S. activities for this year have been concentrated on Adult Education.

Regular Camp activities

1. The N.S.S. unit has worked under the scheme "Each on Teach one".
2. The N.S.S. unit collected fund for "Lockwish was Prathistan".
3. The N.S.S. girls rendered services to the patients and aged people in the OPD and home for the aged.

Central Special Camp

The N.S.S. unit constructed a playground for the Primary School children and also undertook many other social activities to the benefit of the villagers.

Mr. Sawant Shamba has been given the award for the best N.S.S. Volunteer for the year 1990-91.

N.C.C. (Army Wing)

The total number of cadets enrolled was 100. Two of the cadets attended the parasailing camp conducted by Belgaum Group held in March. Sgt. Sunil Mandrekar represented Goa at the Basic leadership camp (Mountaineering held in Kerala in April. Seven of the cadets attended army attachment camp in Bangalore. A hike to Tambdi-Surla was organised. Seven of the cadets attended a 10 day specialised training camp for Republic Day selection at Belgaum in August. Cadets of the college also collected funds for blind and they also made a substantial contribution for Anti-Tobacco Campaign, Cancer by selling cancer scab.

Under Officer Keith Alvares was appointed overall senior under officer of the camp at Monte-De-Guirim. 38 cadets of the college attended at the Annual Training Camping Oct'90 Cdt. Halarnkar Vasant was selected for the All India Trekking Programme held in Goa in December '90.

Senior Under Officer Keith Alvares of the College was adjudged as the best cadet of the academic year 1990-91.

N.C.C. (Girls Wing)

60 students were enrolled as cadets. Various competitions and activities were held during the year. 25 cadets attended the Annual Training Camp at Vasco. Cpl. Vanita attended the advanced Leadership camp held at Ranchi, Bihar. She won the Director General's Gold Medal for Best Cadet. 28 cadets attended the Annual Training Camp at Margao.

The cadets also went for cycling expedition to Candolim and covered a distance of 24 kms.

The cadets attended the Goa Liberation Day Parade at Campal on 19th December. The cadets visited the "Home for the Aged" on 21st December in Mapusa and Sweets were distributed to them. The inmates were entertained with Christmas Carols, Songs and Stories. The cadets of the college also took interest in collecting the fund for Ex-Servicemen and the blind by selling flags.

S.C.U.O. Miss Luna Sirsat is awarded the Best N.C.C. cadet for the year 1990-91.

Mr. Abhinaya Narvekar of F.Y.B.Com class took over as the Secretary of the Department of Study Circle for the academic year 1990-91. The Department sponsored the college terms to participate in Inter-Collegiate Quiz competitions organised by Lions Club of Panaji, Rotary club of Mapusa and Jaycee club of Mapusa. An Inter-Class Quiz competition was organised by the Department. The Quiz Master was Prof. S. H. Kulkarni.

A Valedictory function for the outgoing T.Y. students was held. The Annual Social was celebrated on 11th January.

Volcano'91 was organised by the college and different Inter-Collegiate competitions were held.

A-9 Goa Vidyaprasarak Mandal' College of Commerce and Economics, Ponda-Goa.

The College was established in January 1986 to impart instruction in the approved subjects leading to 3Com. degree. The institution is run by the Goa Vidyaprasarak Mandal in its own building having ten class-room and other space to enable it to carry out its various curricular and extr-acurricular activities.

| 1. Teaching Staff Category | Part time | Full Time |
|-----------------------------------|------------------|------------------|
| Permanent | 4 | 2 |
| Probationary | 8 | 1 |
| Temporary | 1 | 1 |

2. Faculty improvement programme as implemented by the college

1. Shri U. M. Bhende and Shri P. G. Dandin lecturers in commerce of the college have been admitted for M.Phil. course at Goa University.
2. Principal A. G. Jumde attended and also participated in Educational Conference on 'Medium of Instruction at Primary level' organised by Directorate of Education, Panaji.
3. Shri U. M. Bhende along with two students attended 5th National Convention at Mangalore, organised by SPIC MACAY, Mangalore.
4. Mrs. G. A. Borkar & Shri G. S. Bediger attended a three days workshop on 'Family Life', 'Human Sexuality' and 'Responsible Parenthood' organised by Chowgule College Margao.
5. Some of the teachers attended a seminar on 'Autonomous colleges' organised by P.E.S. College, Farmagudi, Ponda.
6. Shri U. M. Bhende, Shri P. G. Dandin and Shri S. P. Bhat lecturers in Commerce & Accountancy, attended three days workshop on 'Techniques of Evaluation' organised by Directorate of Education, Panaji.
7. Miss Ana Andrade, lecturer in Mathematics, attended 'International Conference in Mathematics' for five days at Goa University organised by Mathematics Department, Goa University.
8. Shri Pradip N. Maske, lecturer in Politics, attended two days Seminar on 'The Advent of Portuguese and Goa's Struggle for Freedom' organised by Cuncolim Education Society's College of Arts & Science, Cuncolim.
9. Miss Ana Andrade and Shri Pradip Maske attended workshop on 'Counselling and guidance' organised by Goa Vidyaprasarak Mandal, Ponda.

10. Mrs. G. A. Borkar, lecturer in Economics, along with two students attended a one day Seminar on 'The Girl Child' organised by Damodar College, Margao.
11. Shri Ramesh H. Taxak, lecturer in commerce, attended 'National Seminar' held at D. V. University, Indore and presented a paper on 'Challenges in Education'. -

3. Details of Teaching Staff

Principal: Shri Ashok G. Jumde who is also lecturer in Mathematics.

Departmentwise staff position:

| Department | Designation | No of lecturers |
|----------------|--------------------------------|-----------------|
| i) Mathematics | Lecturers | 3 |
| ii) Economics | ⁶ 2 | |
| iii) English | ⁶ | 2 |
| iv) Geography | " | 1 |
| v) Accountancy | | 3 |
| vi) Commerce | | 3 |
| vii) Politics | U | 1 |
| viii) | | Business Law 1 |
| ix) Sports | Director of Physical Education | 1 |

4. Details of Non-Teaching staff:

| | |
|-----------------------|---|
| i) Head <i>cleric</i> | 1 |
| ii) Librarian | 1 |
| iii) Sr. Clerk | 1 |
| iv) Jr. Clerk/Typist | 2 |
| v) Attendants | 5 |

4. Library:

| | |
|------------------------------|------|
| Total No of Text books | 1020 |
| Total No. of reference books | 2245 |
| Periodicals | 21 |
| Academic Journals | 12 |

6. Details about N.C.C., Sports, Cultural Activities, N.S.s. Educational & Extension work etc.

N.C.C.

The students have attended N.C.C. parades at the open unit at Smt. Parvatibai Chowgule College, Margao, during 1990-91.

Sports

The college provides facilities for Badminton, Volley-ball, Basketball, and various sports on the college campus.

During the year 1990-91 the college has participated in various tournaments organised by the sports club & colleges. They have actively participated in Inter-Collegiate Tournaments. They participated in Table-Tennis, Badminton, Volley-ball, Kabaddi, KhoKho, Athletics, Cricket, Weight lifting, Cross Country etc. organised by Goa University and displayed a good performance. The college have organised All Goa Mansoon Road race for Men and Women and various colleges participated in the race. The Kabaddi and Kho-Kho teams of the college won championships for the second consecutive year in All Goa Inter-Collegiate Kabaddi and Kho-Kho tournaments.

Gymkhana Day was celebrated and champions of Kabaddi and Kho-Kho teams were felicitated at the hands of Shri Brahmanand Sankhwalkar, Ex-Captain of National Foot-ball team.

N.S.S.

The N.S.S. activities for the year 1990-91 were inaugurated at the hands of Shri Narayan Dessai, Principal of Siddharth Bhandodkar Higher Secondary School, Belgaum. He delivered a talk on 'Role of N.S.S. volunteers in N.S.S.'. Tree plantation programmes was undertaken by the volunteers and about 50 saplings were planted. A Literacy Survey was undertaken of ward No. 5 & 6 of Ponda Municipal Council. The Volunteers attended the International Literacy Day celebrated by Government of Goa, at Ponda.

The programme officer, Shri M. M. Chikodkar along with 10 N.S.S. volunteers attended two days International Goan Youth convention at Campal, Panaji.

The N.S.S. unit of the college collected a fund of Rs. 4300/- for Lokvishwas Pratishthan by selling donation coupons for the benefit of physically handicapped students.

This year N.S.S. unit implemented the M.P.F.L. programme and 50 of the volunteers had undertook 'Each one Teach one" programme and have completed the same successfully.

National Youth Week was observed during 1990-91. A talk on 'Swami Vivekanand was delivered by Dr. Bhalerao. Inter-class Patriotic group singing competition was organised on 18th January, 1991.

Special camp of the N.S.S. unit was held at Vaghurme, Savoi-Verem and the volunteers did the work of levelling in front of Government Primary School and prepared a road of about 50 metres in front of the school in the village. They also cleaned the surrounding of Primary School and of Shantadurga Temple in the village. The volunteers celebrated 'Tulshi Vivah' in the village with great enthusiasm.

A valedictory function was held on 3rd Nov. 1990.

Cultural Activities

Activities of the Cultural Association for the year 1990-91 were inaugurated at the hands of Shri D. B. alias Mamasahab Kulkarni. Singing competition, Essay competition etc. were organised by cultural Association during *the* year.

All Goa Inter-Collegiate Elocution competition for late Shri Tukaram Ramchandra Prabhu memorial Trophy was organised. Miss Anita Kenkre and Shri Manoj Bhanankar bagged Rolling Trophy for All Goa Inter-Collegiate Elocution competition on behalf of Anti Dowry Movement for the first time organised by Goa University.

Other Activities

Inauguration of the Commerce Association was held on 26th July 1990 at the hands of Dr. S. K. Gandhe, Registrar, Goa University. He gave a lecture on 'Economic Planning in India'.

Following lectures were arranged by Commerce Association.

1. A lecture by Shri Orlando Luis da Lapa-Soares, Secretary, Goa Chamber of Commerce, on the "Role of Goa chamber of Commerce in the Industrial Development of Goa."
2. A lecture by Dr. J. C.Almeida, Chairman, Goa Public Service Commission on 'The Role of Goa Public Service Commission in Socio-Economic Development of the State'.
3. A lecture by Shri George Nina, deputy Personnel Manager, M.R.F. Ltd., on 'Manager & Management'.
4. Shri Gopalkrishna Purohit, Bratth Manager, Indian Overseas Bank, Madkai, gave a lecture on 'Rural Development'.
5. A special Industrial visit was arranged for T.Y.B.Com. students. They visited Safety Training Centre, Panaji.

Journalist Day' was celebrated by the Journalism students on 1st August, 1990. Prin. A. G. Jumde gave a talk on 'Nature of Journalism' to the students.

Students council of the college organised 5th Annual Bazar Day and donated about Rs. 8000/- to students' Welfare,Fund. They also organised Flower arrangement, Cake decoration, and Rangoli competition on the same day.

7. Statistical Details regarding Teaching courses and students.

| Branch of study | Degree to be awarded | Duration of course | No. of student in 1990-91 | | | |
|-----------------|------------------------|--------------------|---------------------------|-------|-----------|-------|
| | | | F.Y.B.Com. | | S.Y.B.Com | |
| | | | Boys | Girls | Boys | Girls |
| Commerce | B.Com. | 3 yrs. | 168 | 98 | 129 | 87 |
| | | | T.Y.B.Com. | | | |
| | | | 136 | 63 | | |

A-10 Ponda Education Society's College of Arts & Science Ponda-Goa

Established in June, 1986, *the* college is run by the Ponda Education Society in a two storied rented building having 12 lecture rooms and 3 tutorial rooms. The college has its own playground in the campus. The college imparts instructions in the approved subjects leading to B.A. & B.Sc. degrees.

Teaching Staff:

| Category | Full-time | Part-time |
|-----------------|------------------|-------------------|
| Permanent | 20 | |
| Probationary | 7 | |
| Temporary | 9 | 7 (lecture basis) |

Faculty improvement programme as implemented by the college:

A seminar on "Autonomous college" was organised by the College on 13th OctOber, 1990 in the college premises. Principal Dr. A. K. Heblekar welcomed the participants. The Seminar was inaugurated by Dr. S. K. Gandhe, Registrar, Goa University. A lecture on 'Autonomous Colleges' was delivered by Dr. S. K. Gandhe.

Prof. V. R. Shirgurkar, Principal, Smt. Parvatibai Chowgule College of Arts & Science, Margao, delivered a lecture on "Evaluation System in Autonomous Colleges".

Prof. D. L. Naik, Principal, C.E.S. College, Cuncolim delivered a lecture on "Academic Autonomy".

Principal A. G. Jumde, Principal, G.V.M.'s College, Ponda summed up the deliberations. All the members of the teaching staff attended the seminar and participated in the discussions held after the talk on each topics.

Three lecturers from our college viz (1) Mr. A. V. Bhandiwad - lecturer in Economics (2) Mr. S. D. Gokakakar - lecturer in Chemistry and (3) Mrs. V. s. Samant - lecturer in Mathematics attended the Orientation course of Academic Staff College of Goa University from 4th March, 1991 to 30th March, 1991.

Mrs. V. S. Samant, lecturer in Mathematics also attended 1st Refresher Course of Academic Staff College, Goa University from 20th May, 1991 to 8th June, 1991.

Mr. M. N. Kulkarni - lecturer in Mathematics and Miss Anjali M. Rao - lecturer in Philosophy participated in the workshop on "Evaluation Techniques" organised from 28th to 30th December, 1990 at M.E.,S. College of Arts & Commerce, Zuarinagar.

Mr. Mahesh S. Pai - Lecturer in Psychology attended a workshop on Sex Education at Margao from 10th to 12th October, 1990 organised by SECRT - Pune.

Details of Teaching Staff:

Principal : Dr. A K. Heblekar, who is also lecturer in Physics.

Department-wise Teaching Staff:

| Department | Designation | No. of teachers |
|-------------------------|--------------------|------------------------|
| A-Science Stream | | |
| i) Physics | Lecturers | 4 |
| ii) Chemistry | Lecturers | 7 |
| iii) Mathematics | Lecturers | 2 |
| v) Botany | Lecturers | 4 |
| vi) Microbiology | Lecturers | 2 |
| B-Arts Stream | | |
| I) English | Lecturers | 2 |
| ii) Economics | Lecturers | 2 |
| iii) Politics | Lecturers | 2 |
| iv) Marathi | Lecturers | 2 |
| v) Hindi | Lecturers | 3 |
| vi) History | Lecturers | 2 |
| vii) Psychology | Lecturer | 1 |
| viii) Philosophy | Lecturers | 2 |
| ix) Konkani | Lecturer | 1 |
| x) Gymkhana | Physical Director | 1 |

Details of Non-Teaching Staff:

| | |
|---------------------|---|
| I) Head Clerk | 1 |
| ii) Sr. Clerk | 1 |
| iii) Jr. Cleric | 2 |
| iv) Steno-typist | 1 |
| V) Librarian | 1 |
| vi) Lab. Assistant | 4 |
| vii) Class IV staff | |

Library:

Total number of text books/reference books/periodicals/academic journals in the library as on 20/4/91.

| | |
|--------------------------------------|------|
| Total number of text books | 1210 |
| Total number of General books | 1277 |
| Total number of reference books | 1164 |
| Total number of Educational journals | 31 |
| Total number of periodicals | 20 |

N.C.C., Sports, Debates, Cultural activities, N.S.S. Educational and Extension works etc:**a) N.S.S.:**

This year 187 volunteers were enrolled under N.S.S. The activities were inaugurated by Shri S. H. Lotlikar, Vice-Chairman of Ponda Education Society on 15th August, 1990. On this occasion N.S.S. volunteers did tree planting and land levelling in the college campus. The following various activities were successfully conducted throughout the year.

1. Lecturers - "Evils of Dowry System" by Shri. Mannasaheb Kulkarni, President, Anti-dowry Movement, Bombay.
"Vivekanand and. Modern Youth" by Principal Dr. A. K. Heblekar on 12th January, 1991.
2. The Volunteers worked in shramdaan at the college campus. The volunteers engaged themselves in deweeding, cleaning and land-levelling for the playgrounds.
3. The volunteers made a survey of adult illiterates in ward No. 1, 2, 3, & 4 of Ponda Municipal area. 18 volunteers have taken up MPFL project and are teaching 21 adult illiterates in their respective localities.
4. Volunteers are training S.C. and poor students in their respective localities.
5. Volunteers imparted education and recreation to the slum 'children at Shapur, near Subhashchandra Bose Stadium, Ponda.
6. Our lady volunteers adapted Matru-Chhaya Orpahange for their activities.
7. Our volunteers worked in the Lok-Vishwas school for the deaf and dumb children.
8. Volunteers have taken up Hospital Visit Schemes and adapted the up-graded Primary Health Centre, Ponda.
9. Since 1989-90 our college has undertaken a project "A Socio-Scientific Study of Villages in Ponda Taluka".
10. Our volunteers collected a fund of Rs. 1271/- for the families of Shiroda Canoe Tragedy Victims in-the month of July. They have also collected a fund of Rs. 4000/- for the Lok-Vishwas School for deaf and dumb.

11. A Blood Donation Camp was organised in collaborations with Ponda Round Table No. 64 on 30th November, 1990, in which 43 volunteers including 15 ladies donated blood.
12. National youth week was inaugurated on 12th January, 1991 by our Principal Dr. A. K. Heblekar.

'Traditional Day' was celebrated on **16th** January, 1991 by the volunteers and *teachers* by wearing traditional Indian dresses. The Youth Week concluded with a "Street Play" by our volunteers on 19th January, 1990 highlighting burning social problems of the nation.

13 volunteers led by our dynamic NSS Secretary Shri Shesh Shirodkar took part in the NSS Central Camp organised by Goa University at Morlem, Sattari. 10 volunteers participated in the National Integration Camps at Kottayam (Kerala) and Simla in January, 1991 and February, 1991 respectively.

b) Sports:

The Gymkhana Committee started its activities in the first week of August, 1990. To select the various teams and search individual talents inter-class games were conducted. Our students team participated in various Inter-Collegiate tournaments and got valuable experience and enriched their skills and talents. We reached Semi Finals Kabaddi (men), Kabaddi (women), and Badminton (men) Inter-Collegiate Championships. We won Group Judo Championships of Goa University.

The Vth Annual Athletics Meet was jointly organised on 17th and 18th December, 1990 on Subhashchandra Bose Stadium. Mr. V. J. Bandodkar, the B.D.O. of Ponda formally inaugurated the meet on Monday morning. It was concluded with Mr. Vijay Dev, (I.A.S.), Dy. Collector of North Goa as the Chief Guest. He gave away the prizes and appealed to the students to take full advantage of the sports facilities.

Mr. Marian John Anthony, T.Y.B.A., was selected for the Inter-University West Zone Cricket team..

Mr. Nitin Kerkar, S.Y.B.A. was also selected for the Inter-University West Zone Cricket team.

Mr. Luis Vaz from T.Y.B.A. was selected 39th senior National Kabaddi Championships held at Vijayawada (A.P.).

Mr. Anant Naik from T.Y.B.Sc. got Bronze Medal in Jevellin Throw organised by Goa University.

Miss Meghana Desai from S.Y.B.Sc. got Silver Medal in 800 mts. running organised by Goa University.

C) Cultural Activities:

The Cultural Committee of P.E.S. College for the year 1990-91 worked under the Chairmanship of Prof. S. D.Gokakakar and Dr. P. Bhattacharya as a Deputy Chairman.

The Committee prepared a datewise calender for various internal cultural activities. Activities like patriotic songs, singing competition, Rangoli, Water painting, flower arrangement, Elocution competition, Essay Competition, Quiz, Poetry singing competition, Natyavachan and dancing competition were organised.

Along with these activities, our students participated in three "Yuvanani" programmes on All India Radio, twice in Konkani and once in English.

Our students participated in a variety of programmes and romped home with prizes, they are:

Miss Anita G.Lokare, won the 3rd Prize in the Jaycees week celebration in All Goa Inter-Collegiate Elocution Competition.

Miss Rupa Dharwadkar was awarded the 'Best Actress' award for the One Act Play Competition 91-92 at Kala Academy. She also won the first prize in the traditional dress day. She was also given the Principe% award for the best graduating student, 1990-91. She also won the 3rd prize in the Essay competition held by Prayas.

Shri Santosh Wadkar won the 3rd prize in the Essay Competition held by 'Prayas'.

Shri Anil S. Purohit & Miss Anita Lokare won the 1st and 2nd prizes respectively in the individual category at the All Goa Inter-Collegiate Elocution Competition for the Tukaram Ramchandra Prabhu Memorial Trophy which was also awarded to the above participants for team championship.

An open forum of staff and students called "Study Circle" was started in the academic year 1988-89.

Statistical details regarding teaching courses and students:

| Branch of study | Degree to be awarded | Duration of course | No. of students in 1990-91 (Sex-wise) | | | |
|-----------------|----------------------|--------------------|---------------------------------------|-----|-----|-------|
| | | | 1st | 2nd | 3rd | Total |
| ARTS | B.A. | 3 yrs. | yr. | yr. | yr. | |
| | | Boys | 73 | 52 | 43 | 168 |
| | | Girls | 75 | 81 | 48 | 204 |
| SCIENCE | B.Sc. | 3 yrs. | | | | |
| | | Boys | 42 | 46 | 22 | 110 |
| | | Girls | 33 | 25 | 13 | 71 |

Result of the college percentage-wise in respect of the final Year University examination in different subjects:

MARCH/APRIL '90

T.Y.B.A. (3 units)

| | | | |
|------------|--------|----------|----------------|
| Economics | 21.00% | Politics | 96.00% |
| History | 61.00% | Hindi | 79.00% |
| Philosophy | 36.00% | Marathi | 100.00% |

T.Y.B.Sc.

| | | | |
|---------------------|---------|---------------------|---------|
| Chemistry (6 units) | 68.57% | Chemistry (3 units) | 66.67% |
| Botany (3 units) | 100.00% | Zoology (3 units) | 100.00% |
| Physics (3 units) | 72.70% | Maths (3 units) | 63.60% |

OCTOBER - 1990

T.Y.B.A. (3 units)

| | | | |
|------------|---------|---------------------------------|---------|
| Economics | 22.20% | Politics | 100.00% |
| Hindi | 100.00% | History | 28.50% |
| Philosophy | 16.60% | Marathi (students not appeared) | |

T.Y.B.Sc.

| | | | |
|------------------------|--------|------------------------------------|--------|
| Chemistry (6 units) | 66.60% | Physics (3 units) | 66.60% |
| Maths (3 units) | 25.00% | Botany (not appeared) | |
| Zoology (Not appeared) | | Chemistry (3 units) (not appeared) | |

APRIUMAY 1991

T.Y.B.A. (3 units)

| | | | |
|-----------|---------|------------|--------|
| Economics | 68.75% | Politics | 91.93% |
| Hindi | 100.00% | History | 93.75% |
| Marathi | 100.00% | Philosophy | 61.53% |

T.Y.B.Sc.

| | | | |
|-------------------|---------|---------------------|---------|
| Botany (6 units) | 100.00% | Chemistry (6 units) | 79.31% |
| Zoology (6 units) | 57.14% | Chemistry (3 units) | 100.00% |
| Physics (3 units) | 66.66% | Maths (3 units) | 50.00% |

Principals' Assessment of the performance of the college in the Academic and Curricular and Non-Curricular fields:

The college performed satisfactorily in academic and curricular and non-curricular activities, the college has achieved a good results at the T.Y.B.A. (78.57%) and T.Y.B.Sc. (74.41%) examinations held in a April, 1991.

A-11 NAVAL ACADEMY I.N.S. MANDOVI VEREM-GOA

The Naval Academy is a Defence Service Establishment administered by the Naval Headquarters, New Delhi. The Academy started imparting training to the (10+2) 'X' cadets for B.Sc. (Special) degrees course commencing from August, 1987.

The Naval Academy has exclusive buildings for conducting training classes and for accommodating cadets as well as teaching staff. The Academic Wing has a total of 16 classrooms. It houses the staff rooms, the laboratories, for Physics, Training Design Cell, Examination Cell, Draughtsman

MOM.

A well stocked library is available for use by the cadets. Each cadet is issued with a set of standard textbooks for study. Reference books are also available in the library for use by trainees. Popular periodicals and journals are made available in the library.

Department-wise Teaching strength Department Designation

| | | | |
|------|----------------------------|-------------------|----------|
| i) | Physics | Head of the Dept. | 1 |
| | | Lecturers | 7 |
| | | Demonstrators | 1 |
| ii) | Mathematics | Head of the Dept. | 1 |
| | | Lecturers | 4 |
| iii) | Chemistry | Head of the Dept. | 1 |
| iv) | Meteorology & Oceanography | Head of the Dept | 1 |
| v) | English | Head of the Dept. | 1 |

Non-Teaching Staff:

| | | |
|-------|---------------------------|---|
| i) | Asstt. Librarian | 1 |
| ii) | Lab. Asstt. | 1 |
| iii) | Tracer | 1 |
| iv) | UDC | 1 |
| v) | Lab. Attendant | 1 |
| vi) | Gest Operator | 1 |
| vii) | Daftry | 1 |
| viii) | Ship Modelling Instructor | 1 |
| ix) | Sweeper | 1 |

Teaching courses and students:

The Academy conducts only 3 years B.Sc. (Special) Degree course for the 10 + 2 'X' cadets of the Indian Navy. The details of the cadets admitted for this course as on 31st Dec. '90 are as follows:

| SI. Semester No. | No. of Cadets |
|---------------------------|----------------------|
| (a) Sixth (42 (NAC) | 22 |
| (b) Fifth (43 NAC) | 31 |
| (c) Fourth (44 NAC) | 28 |
| (d) Third (45 NAC) | 23 |
| (e) Second (46 NAC) | 48 |
| (f) First (47 NAC) | 27 |

Playgrounds/Facilities for sports:

| | |
|---|------------|
| (a) Football Ground | Two |
| (b) Hockey Ground | One |
| (c) Basketball courts | Two |
| (d) Volleyball Ground | Three |
| (e) Swimming Pool | One |
| (f) Boat Pool with a number of boats for training in water sports. | |

Curriculum:

The academic curriculum of the 3 years course lays emphasis on Physics, Mathematics, Meteorology and Oceanography. During the three years at the Academy, the Cadets are given not only academic inputs but also watermanship activities, adventure activities, sports and games. The cadets are groomed at the Naval Academy to become Naval Officers in future.

A-12 CUNCOLIM EDUCATION SOCIETY'S COLLEGE OF ARTS & COMMERCE, CUNCOLIM.

The College is run by the Cuncolim Education Society. It was established in **August, 1987**.

1) Accommodation (Class Room);

1. The College building belongs to the society which runs the college.
2. The ownership is with the society.
3. The land of the building is on leasehold.

2) Playground facilities for sports:

1. The college is using the village playground which is situated Marcut, Cuncolim. The following sports facilities are provided.

| | |
|------------------|----------------------------|
| Volleyball court | Within the college campus. |
| Basketball court | Within the college campus. |
| Kabaddi ground | Within the college campus. |
| Kho-Kho ground | Within the college campus. |
| Badminton court | Within the college campus. |
| Table Tennis | In the college premises. |
| Football | On the village ground. |
| Cricket | On the village ground. |

2. The village ground is used for *the outdoor games*.

3. Teaching staff:

| Category | | Part-time |
|--------------|-----|-----------|
| Permanent | 1 | |
| Probationary | 6 | 1 |
| Temporary | 4 • | 1 |

4. Details of teaching Staff:

Principal: Shri Dinkar L. Naik, who is also the Lecturer in History.

| Department | No. of Lecturers |
|--|-------------------------|
| Commerce | 2 |
| Sociology | 2 |
| Political Science & Foundation course | 1 |
| Economics | 2 |
| History | 2 |
| Hindi | 1 |
| English | 1 |
| Commerce & Accountancy | 1 |
| Commerce, Mathematics & Statistics | 1 |

5) Details of Non-Teaching staff

| Designation | Number |
|--------------------|---------------|
| Librarian | 1 |
| U.D.C. | 1 |
| L.D.C. | 2 |
| Peons | 3 |
| Watchman | 1 |

6) Library:

Total number of Text books/reference books/periodicals/Academic journals in the Library as on 20.4.1991.

| | |
|-------------------|-----|
| Text Books | 830 |
| Reference Books | 492 |
| Periodicals | 22 |
| Academic Journals | 11 |

7) N:C.C., sports, Debates, Cultural Activities, N.S.S., Educational and Extensional Works etc.

1. N.C.C.: The college does not have N.C.C. unit.
2. Sports: The college provides facilities for both Indoor and outdoor games, such as Table-Tennis, Football, Basketball, Volleyball, Cricket, Badminton, etc. The college participated in **the** various sports events conducted by the University.
3. Debates: Participated in Inter-Collegiate Debates & Quiz competitions organised by the various clubs and few prizes were won.
4. Cultural Activities: Annual Social: Students presented various Cultural Programmes. College Singing and Fancy Dress competitions were held which provided ample opportunities to the students to further develop their talents.
5. N.S.S.: The college has a N.S.S. Unit which carries on the normal N.S.S. activities.
6. Educational and Extension: Some Literary classes were conducted by the N.S.S. Unit.

Statistical details regarding course and students:

| Branch of study | Degree to be awarded | Duration of degree | No. of students in 1990-91 (Sex-wise) | | | |
|-----------------|------------------------|--------------------|---------------------------------------|-------|----------|-------|
| | | | 1st year | | 2nd year | |
| | | | Boys | Girls | Boys | Girls |
| Arts | B.A. | 3 years | 34 | 48 | 16 | 42 |
| | | | | | 3rd year | |
| | | | | | Boys | Girls |
| | | | | | 16 | 34 |
| Commerce | B.Com. | 3 years | 1st year | | 2nd year | |
| | | | Boys | Girls | Boys | Girls |
| | | | 64 | 29 | 61 | 46 |
| | | | 3rd year | | | |
| | | | Boys | Girls | | |
| | | | 58 | 42 | | |

Percentage of Result

| | April 1990 | October 1990 | April 1991 |
|------------------------------|------------|--------------|------------|
| T.Y.B.A. | 66.66% | 100% | 41.02% |
| T.Y.. B.Com. | 40.42% | 26.31% | 36.26% |

A-13 GOVT. COLLEGE OF ARTS, SCIENCE & COMMERCE SANQUELIM-GOA.

This is a Government College, which was established in June 1988 to impart instruction in the approved subjects leading to B.A., B.Sc. and [B.Com.](#) degrees. The Institution is run by the Government of Goa in the Government owned building having 16 lecture cum tutorial rooms.

The College provides facilities for various sports activities and has a playground adjoining the college building.

Teaching staff:

| Category | Full-time | Lecture basis |
|---|-----------|---------------|
| Permanent | | |
| Probationary) on Ad-hoc basis) basis | 28 | 13 |
| Temporary | | |

Details of teaching staff:

Principal : Dr. B.A. Gomes, who is also a lecturer in Economics.

| Department | Designation | No. of teachers |
|-----------------------|-------------|-----------------|
| 1) Economics | Lecturer | 3 |
| 2) Mathematics | Lecturer | 2 |
| 3) English | Lecturer | 2 |
| 4) Geography | Lecturer | 1 |
| 5) Physics | Lecturer | 1 |
| 6) Chemistry | Lecturer | 4 |
| 7) Geology | Lecturer | 2 |
| 8) Botany | Lecturer | 2 |
| 9) Zoology | Lecturer | 2 |
| 10) Commerce | Lecturer | 4 |
| 11) Political Science | Lecturer | 1 |
| 12) History | Lecturer | 1 |
| 13) Hindi | Lecturer | 1 |

| | | | |
|-----|------------------|-----------------------------------|---|
| 14) | Computer Science | Lecturer | 1 |
| 15) | Gymkhana | Director of Physical Education | 1 |

Details of Non-teaching staff:

| | | | |
|-----|-------------------|--|---|
| 1) | Librarian | | 1 |
| 2) | Accountant | | 1 |
| 3) | Head Clerk | | 1 |
| 4) | U.D.C. | | 1 |
| 5) | Cashier | | 1 |
| 6) | Jr. Steno | | 1 |
| 7) | L.D.C. | | 1 |
| 8) | Storekeeper | | 1 |
| 9) | Laboratory Asstt. | | 3 |
| 10) | Jr. Lib. Asstt | | 3 |
| 11) | Lib. Attend. | | 1 |
| 12) | Driver | | 2 |
| 13) | Peons | | 3 |
| 14) | Sweeper | | 2 |
| 15) | Cleaner | | 1 |
| 16) | Watchman | | 2 |
| 17) | Groundsman | | 2 |
| 18) | Mali | | 2 |
| 19) | Lab. atttd. | | 3 |

Library:

| | | |
|----|--------------------|------|
| 1) | Total No. of books | 5010 |
| 2) | Reference books | 4240 |
| 3) | Text books | 800 |

| | |
|----------------------|----|
| 4) Subject journals | 26 |
| 5) Daily Newspapers | 10 |
| 6) Popular Magazines | 16 |

N.C.C., Sports, Debates, Cultural Activities, N.S.S., Educational & Extension works etc:

N.S.S.:

The inaugural function of the N.S.S. Unit of the College was held on 9th August, 1990.

During the academic year, 100 students enrolled as N.S.S. volunteers. The N.S.S. activities spread throughout the year consisted of two main activities i.e. N.S.S. Special Camp, and N.S.S. Regular Activities. 50 volunteers including 5 non-N.S.S. youth attended the camp.

One of the main activities taken up during the camp was socio-economic survey of the village. Besides this survey, Manual work was also undertaken which included levelling of the mud-road, trenches, general cleaning etc.

The Valedictory function of the N.S.S Special Camp was held on 27th October, 1990.

On 15th January, 1991, National Youth Week was observed. It was followed by a monologue competition.

Under the N.S.S. regular activities, 45 students have completed 'Each one, Teach one' project and a few have completed hospital work and primary school teaching project. The Unit also undertook a massive tree plantation programme wherein about 2000 saplings were planted in the campus of the college.

Sports:

a) College Gymkhana Hall with adequate facilities for Indoor-games.

- (1) Table-Tennis
- (2) Carrom
- (3) badminton (Only equipments)
- (4) Chess

(b) College Ground with adequate facilities out-door games.

- (1) Foot-ball
- (2) Cricket
- (3) Athletics
- (4) Volley-ball
- (5) Kho-Kho
- (6) Kabaddi
- (7) Tennikoit

The College has participated in the inter-collegiate Foot-ball, Cricket, Table-Tennis, Badminton, Athletics, Kho-Kho, Chess and Volley-ball tournaments.

The Annual College mela was held on 20th and 21st December, 1990. A number of dramatic, literary and art competitions were organised.

On 23rd December 1990, the 3rd Annual Social Gathering was held in the College premises. Mr. **R. S. Sethi** Secretary (Finance), Government of Goa was the Chief Guest.

The 3rd Annual Sports Meet was held on 19th January, 1991.

Co-Curricular Activities:

The College has the following co-curricular Associations'

1. The English Literacy Association
2. The Hindi-Marathi-Konkani Association
3. The Science Association
4. The Economic-Commerce Association and
5. The social Science Association.

Under the auspices of these Associations, a number of activities have been held during the year. The Activities included Debates, Quiz, Singing, General knowledge, Spelling Bee Competitions etc. Paper-reading, Guest-Lectures, Exhibitions, Special talks have been held.

Statistical details regarding teaching courses and students:

| Branch of study | Degree to be awarded | Duration of degree | No. of students admitted 1990-91 (Sex-wise) | | | |
|---------------------------------|------------------------|--------------------|---|----------|----------|----|
| | | | F.Y.B.A. | S.Y.B.A. | T.Y.B.A. | |
| ARTS | B.A. | 3 years | | | | |
| | | | Boys | 42 | 15 | 26 |
| | | | Girls | 69 | 11 | 11 |
| | | | Total | 111 | 44 | 37 |
| COMMERCE B.Com. | B.Com. | 3 years | | | | |
| | | | Boys | 127 | 15 | 22 |
| | | | Girls | 76 | 8 | 23 |
| | | | Total | 203 | 23 | 45 |
| SCIENCE | B.Sc. | 3 years | | | | |
| | | | Boys | 33 | 20 | 05 |
| | | | Girls | 22 | 12 | 07 |
| | | | Total | 55 | 32 | 12 |

Principal's assessment of performance of the college in the Academic and curricular and non-curricular fields:

On the academic side, the College has performed very well. On the co-curricular front, the students and faculty have done very well in the activities of various college Associations. A "Crash course in English" was also conducted. A 10-day residential camp at Kopardem was conducted.

Result of the college percentage-wise in respect of the final year University examination:

| | | |
|------------|---------|---------|
| TY.B.A. | 71.42% | (25/35) |
| T.Y.B.Sc. | 100.00% | (9/9) |
| T.Y.B.Com. | 82.08% | (55/67) |

A-14 GOA COLLEGE OF HOME SCIENCE, BAMBOLIM

The College was established in July, 1988, temporarily housed in the Government Medical College Complex. There are three lecture rooms and three tutorial rooms.

Details of Teaching staff:

| Category | Full-time | Part-time. |
|-------------------|------------------|-------------------|
| Permanent | | |
| Probationary | | |
| Temporary | 6 | |
| Visiting Lecturer | | 12 |

Details of Teaching staff:

| | |
|---------------------------|----------|
| Principal - Kum Z. Pabari | |
| Principal | 1 |
| Lecturers | 5 |
| Non-Teaching staff: | |
| U.D.C. | 1 |
| L.D.C. | 1 |
| Asst. Librarian | 1 |
| Lab. Assistant | |
| Class IV | 5 |

Library:

| | |
|----------------------------|-----|
| Text-Books/Reference Books | 173 |
|----------------------------|-----|

Periodicals 8

Academic Journals 15

N.C.C., Sports Debates, Cultural Activities, N.S.S, Educational and Extensions works etc:

The students took part in the Inter-Collegiate sports tournament. They also participated in various cultural activities.

Statistical details regarding teaching courses & students:

| Sr.No | Branch of study | Degree to be awarded | Duration of degree course | No. of students in 1990-91 | | |
|-------|-----------------|----------------------|---------------------------|----------------------------|---------|---------|
| | | | | 1st Yr. | 2nd Yr. | 3rd Yr. |
| 1 | Home Science | B.Sc. (home Science) | 3 Yrs. | 26 | 14 | 14 |
| Total | | | | 54 | | |

Percentagewise Results in respect of the Final year Examination 1991:

| Distinctions | First Classes | Second classes |
|--------------|---------------|----------------|
| 1 | 6 | 5 2 with-held |

F.Y.B.Sc. 1991

| Distinction | First Classes | Second Classes |
|-------------|---------------|----------------|
| 2 | 2 | 2 1 A.T.K.T. |

Final Year Examination Result - 1991

| | |
|-----------|-------|
| F.Y.B.Sc. | 83.3% |
| S.Y.B.Sc. | 87.5% |
| T.Y.B.Sc. | 92.3% |

A-15 GOVT. COLLEGE OF ARTS, SCIENCE & COMMERCE KANDOLA, MARCELA-GOA.

Govt. College of Arts, Science & Commerce, Kandola, Marcela-Goa is established in June 1989. The college is affiliated to Goa University and imparts instruction in courses leading to B.A., [B.Com](#) & B.Sc. degrees.

The College is run by Government of Goa. There are nine lecture rooms. In addition to these there are also rooms for administrative staff. There is also a playground located in the college campus.

Teaching staff:

| Category | Full-time | Part-time |
|-----------------|------------------|------------------|
| Permanent | | |
| Probationary | | |
| Temporary | 14 | 14 |

Details of teaching staff:

Principal: Dr. John B. Fernandes, who is also a lecturer in Chemistry.

| Department | Designation | No. of teachers |
|-------------------|--------------------------------|------------------------|
| Chemistry | Lecturer | 2 |
| Economics | Lecturer | 2 |
| Geography | Lecturer | 1 |
| Political Science | Lecturer | 1 |
| Konkani/Marathi | Lecturer | 1 |
| History | Lecturer | 1 |
| Commerce | Lecturer | |
| Computer Science | Lecturer | 1 |
| Microbiology | Lecturer | 1 |
| Mathematics | Lecturer | 1 |
| Physics | Lecturer | 1 |
| Gymkhana | Director of Physical Education | 1 |

Non-Teaching staff:

| | |
|----------------|---|
| Head Clerk | 1 |
| Accountant | 1 |
| U.D.C. | 2 |
| Steno | 1 |
| L.D.C. | 2 |
| Lib. Attendant | 1 |
| Lab. Assistant | 4 |
| Lab. Attendant | 3 |
| Driver | 2 |
| Peons | 3 |
| Sweepers | |
| Watchman | 2 |

Statistical details regarding teaching courses and students:

| Branch of study | Degree to be awarded | Duration of course | No. of students in 1990-91 (Sex-wise) | | | |
|---------------------------------|----------------------|--------------------|---------------------------------------|---------|---------|-------|
| | | | 1st yr. | 2nd yr. | 3rd yr. | Total |
| Commerce B.Com. | | 3 years | | | | |
| | | Boys | 67 | 60 | - | 127 |
| | | Girls,, | 21 | 24 | - | 45 |
| | | Total | 88 | 84 | - | 172 |
| Arts | B.A. | 3 yrs. | | | | |
| | | Boys | 32 | 16 | - | 48 |
| | | Girls | 20 | 4 | | 24 |
| | | Total | 52 | 20 | | 72 |

| | | | | |
|---------|-------|---------|---|---|
| Science | B.Sc. | 3 years | | |
| | | Boys | 5 | 5 |
| | | Girls | 3 | 3 |
| | | Total | 8 | 8 |

Results of the colleges percentagewise in respect of the final year university examinations:

First batch of the graduates of this college will appear for the final year examination in April, 1992.

Principal's Assessment of the Performance of the college in the academic and curricular and non-curricular fields:

The performance of the college is VERY GOOD.

A-16 GOVERNMENT COLLEGE OF ARTS & COMMERCE, QUEPEM-GOA

Government College of Arts & Commerce, Quepem-Goa is established in 1989. The college is affiliated to Goa University and imparts instruction in courses leading to B.A. & [B.Com.](#) degree.

The College is run by the Government of Goa. The College building belongs to the society which runs the college. There are four lecture rooms. In addition to these there are also rooms for administrative staff. The building is exclusively used for the degree college.

Details of Teaching staff

Principal - Shri P. N. Timble who is the lecturer in Economics.

Teaching staff

| Category | full time | Part time | Lecture basis |
|--------------------------------------|------------------|------------------|----------------------|
| Permanent | | | |
| Temporary | | | 4 |
| Ad-hoc | 10 | | |
| Details of Non-Teaching staff | | | |
| Head clerk | 1 | | |
| Accountant | 1 | | |
| U.D.C. | 2 | | |
| L.D.C. | 1 | | |

Librarian

| | |
|----------------|---|
| Lib. Assistant | 1 |
| Jr. Steno | 1 |
| Peons | 3 |
| Sweepers | 2 |
| Watchman | 2 |
| Drivers | 2 |

Library:

| | |
|-----------------------------------|------|
| Total No. of Text/Reference books | 3109 |
| Periodicals | 29 |
| Journals | 11 |
| Video Cassettes | |
| Audio (Educational) | 43 |
| Video (Educational) | 70 |
| NEWSPAPERS | 15 |

Enrolment and Results

| Branch of study | Degree to be awarded | Duration of course | No. of students in 1990-91 (Sexwise) | | | |
|---------------------------------|----------------------|--------------------|--------------------------------------|---------|---------|-------|
| | | | 1st yr. | 2nd yr. | 3rd yr. | Total |
| Commerce B.com. | | 3 yrs. | | | | |
| | | Boys | 35 | 27 | | 62 |
| | | Girls | 15 | 24 | | 39 |
| | | Total | 50 | 51 | | 101 |
| Arts | B.A. | 3 yrs. | | | | |
| | | Boys | 20 | 14 | | 34 |
| | | Girls | 36 | 29 | | 65 |
| | | Total | 56 | 43 | | 99 |

Extra curricular activities:

a) N.S.S.:

The N.S.S. unit took up the following activities for the year.

1. Regular Activities

Total enrolment including boys and girls was 164. The following projects were undertaken.

- i) Fund collection The volunteers raised fund for the Shiroda Boat Tragedy victims. An amount of Rs. 4170/- was handed over to the Editor of 'Suna parant'.
- ii) Environment Tree plantation on the new college campus.
- iii) Education Each **one** Teach one project of the Adult Literacy Mission.
- iv) cultural A 'Pantomine' programme for the students of the Deaf and Dumb School of the Gujarathi Samaj, Pajifond, Margao.
- v) Health Free Medical Check-up Camp for our college students was held on 11.7.90.

2. SPECIAL CAMP

Total enrolment for the special camp was 53. It was held at Guirdolim, Chandor on 3rd Nov. to 12th Nov. '90. The following projects were undertaken.

- i) Levelling of compound for the Guirdolim Club, Chandor.
- ii) Construction of Septic Tank and refreshment room for the club.
- iii) Cleaning of **the** areas around Chandor Church and sun road Guirdolim.

SPORTS:

The college participated for the first time in the Inter-Collegiate Tournaments organised by the Goa University. The college participated in games like table tennis, cricket, football etc. In athletics, two of the students were awarded bronze medals. In additions to these, there were also Inter-Class Tournaments.

CULTURAL ACTIVITIES:

The Cultural Union conducted the following cultural activities during the year.

1. Elocution competition
2. On the spot essay competition
3. Cartoon competition
4. Rangoli competition
5. Flower arrangement
6. singing competition

7. All Goa Wall Paper competition
8. Exhibition of books and handicrafts
9. Kavi Sammelan
10. Teacher's Day, Independence Day, Liberation Day, Saraswati Pooja, Diwali, Christmas and Youth Week were celebrated. Students picnic was conducted. Annual Day was also organised.

A novel programme "legislator Choice" was held whereby many Legislators spoke on the subject of their choice.

The college has started a "publications cell" and two books have been published. The Annual Cultural Day was celebrated on 31st January '91.

A-17 ROSARY COLLEGE OF COMMERCE, NAVELIM-GOA

This college, established in June 1990, is run by the Diocesan society of Education. It imparts instruction in the approved subjects leading to [B.Com.](#) degree. The ownership of the building is with the Fabrica of Rosary Church, Navelim on Freehold basis.

The society runs the institution in its two storied building which has seventeen lecture rooms and ten tutorial rooms besides other space needed for its administrative, curricular and extra-curricular activities.

There is also a playground, located in the college campus, where facilities are provided for indoor and outdoor games like Basket-ball, Volley-ball, Table-tennis etc. The College has, however, no hostel facilities.

Teaching staff

| Category | Full-time | Part-time | Lecture basis |
|-----------------|------------------|------------------|----------------------|
| Permanent | | | |
| Probationary | 1 | | |
| Temporary | | | 5 |

Details of Teaching staff:

Principal : Shri T. P. Newman Fernandes, who is also a lecturer in Psychology.

Department-wise teaching staff:

| Department | Designation | No. of teachers |
|-------------------|--------------------|------------------------|
| Psychology | Lecturer | 1 |
| Economics | Lecturer | 1 |

| | | |
|-------------|-----------|---|
| Accountancy | Lecturer | 1 |
| Mathematics | Lecturers | 2 |
| Geography | Lecturers | 1 |
| English | Lecturer | 1 |

Non-Teaching Staff:

| | | |
|-------------------|-----------------------------------|---|
| Librarian | | 1 |
| Clerk | | 2 |
| Library Attendant | | 1 |
| Attendant | | 1 |
| Gymkhana | Director of Physical Education | 1 |

Library:

Total number of text books/reference books/periodicals/academic journals in the library as on 20/4/91.

| | |
|-------------|-----|
| Text Books | 651 |
| Periodicals | 10 |
| Journals | 5 |

N.C.C., Sports, Debates, cultural activities, N.S.S., Educational and Extension works etc:

The students took part in several competitions. The College has adopted Ravora ward of Navelim for all round development of its inhabitants.

Statistical details regarding teaching courses and students:

| Branch of study | Degree to be awarded | Duration of course | No. of students in 1990-91 (sex-wise) |
|-----------------|------------------------|--------------------|---------------------------------------|
| COMMERCE | B.Com. | 3 years | |
| | | Boys | 23 |
| | | Girls | 13 |
| | | Total | 36 |

Principals assessment of the performance of the colleges in the Academic and curricular and non-curricular fields:

Inspite of being the first year of the college and the quality of students mostly from pass class division, **the** performance of the students **in** G.Y.B.Com. exams was quite commendable with a passing percentage of 88%. The students took part in inter collegiate sports and other competitions.

B-1 GOA MEDICAL COLLEGE, PANAJI - GOA.

The Goa Medical College is run by the Government of Goa. It was established in the year 1963/

Accommodation :-

The building belongs to the Govt. of Goa. The land of the building is on freehold.

The College has its own playground situated at Bambolim campus. It has the following play fields

- i) Basket Ball
- ii) Volley Ball
- iii) Out door Badminton - 2 nos
- iv) Table Tennis Tables - 3 nos

Facilities for sports

College provides facilities for playing. It has national players and trained coaches.

Hostel facilities :

The College has hostel facilities for boys and girls. 275 boys and 178 girls are provided with hostel accommodation.

Teaching Staff :

(i) Number of the teaching staff:

| Category | Full-time |
|-----------------|------------------|
| Permanent | 13 |
| Probationary | 41 |
| Quasi-permanen | 19 |
| Temporary | 33 |
| Ad hoc | 3 |

Number of teaching staff belonging to S. C. - Nil.

Details of Faculty Improvement Programme :

The teaching Faculty of the existing Department of Goa Medical College comprises appropriately qualified staff with the requisite experience and is in concurrence those prescribed by the Medical Council of India. Every effort is being made to fill up the existing vacancies by recruiting people with the requisite qualifications.

In addition, there is a proposal by the Government to introduce superspeciality Departments in the Goa Medical College once the 750 beds hospital is completed. Necessary arrangements are being made to obtain the approval of the Government for creation of appropriate posts to man the above.

Details of Teaching Staff :

Dr. V. J. Monteiro is the Dean of the college.

| Designation | No. of staff |
|---------------------|---------------------|
| Professor | 16 |
| Associate Professor | 13 |
| Assistant Professor | 21 |
| Lecturer | 23 |
| Demonstrator | 26 |

Details of Library and non-teaching staff :

| | |
|-----------------------|---|
| Librarian | 1 |
| Assistant Librarian | 3 |
| Library Assistant | 4 |
| Jr. Library Assistant | 5 |

Library :

| | |
|------------------------------|-------|
| Total No. of Books | 13009 |
| Total No. of Journals | 163 |
| Total No. of Back Vols. | 8991 |

N. C. C., Sports, debates, cultural activities, N. S. S., Educational and Extension work :

NIL

Statistical details regarding teaching course and students :

| Branch study | Degree to be awarded | Duration of course. | No. of students admitted in 1990-91 | |
|--------------|----------------------|---------------------|-------------------------------------|----------------|
| Medicine | M. B. B. S. | 5 1/2 Yrs. | I | M. B. B. S. 68 |
| | | | I | M. B. B. S. 64 |
| | | | I | M. B. B. S. 71 |

RESULTS

April 1990

| | No. of students appeared | | No. of students passed | | |
|--------------|--------------------------|----------|------------------------|-------|------------|
| | Boys | Girls | Boys | Girls | Percentage |
| I MBBS | 10 | 10 | 7 | 7 | 70% |
| II MBBS | 29 | 30 | 26 | 29 | 93.22% |
| III MBBS | 23 | 14 | 9 | 9 | 48.64% |
| M. D. | 8 | 7 | 7 | 6 | 86.66% |
| M. D. | 3 | 1 | 2 | 1 | 75.00% |
| -Diplomas | 4 | 2 | 3 | 2 | 83.33% |

October 1990

| | Boys | No. of students appeared | | Girls | No. of students passed | | % |
|----------|------|--------------------------|-------|------------|------------------------|------------|------------------|
| | | Boys | Girls | | Boys | Girls | |
| I MBBS | 32 | | 32 | | 20 | 27 | 73.43% |
| II MBBS | 12 | & 2 (B.U.) | 6 | & 1 (B.U.) | 9 | 4 | 6:1.90% |
| III MBBS | 24 | & 14 (B.U.) | 38 | & 5 (B.U.) | 16 | 8 (B.U.)24 | & 2 (B.U.) 6172% |
| M. D. | 8 | | 14 | | 8 | 9 | 77.27% |
| M. S. | 6 | | 2 | | 5 | 1 | 75.00% |
| Diplomas | 5 | | 5 | | 5 | 5 | 100.00% |

April 1990

| | | | | | | | |
|----------|----|------------|----|------------|----|------------|-------------------|
| I MBBS | 13 | | 6 | | 8 | 4 | 63.15% |
| II MBBS | 30 | & 1 (B.U.) | 24 | | 27 | 24 | 92.72% |
| III MBBS | 13 | & 7 (B.U.) | 13 | & 3 (B.U.) | 3 | 3 (B.U.)10 | & 2 (B.U.) 50.00% |
| M. D. | 9 | | 10 | | 8 | 9 | 39.47% |
| Diplomas | 4 | | 2 | | 4 | 2 | 100.00% |

(A) DEPARTMENT OF MEDICINE:

1 Research staff in the Department :

| | Designation | Qualification |
|----------------------|-------------------|---|
| Dr. N. G. K. Sharma | Professor | M. B. B. S. |
| Dr. V. G. Dubhashi | Assist. Professor | M. D. (Gen. Med) M B. B. S. |
| Dr. (Mrs) Lata Kamat | -do- | M D. (Gen. Med) M. B. B. S. M. D. -73 |
| Dr. S. Y. Natekar | Lecturer | M. B. B. S. M. D |
| Dr. Rufino Monteiro | Lecturer | M. B. B. S. 1982 (Bom) M. D. 1985 (Bom) |

Details of Research students :

| Name of the teacher (Research Guide) | No. of students | Full-time |
|---|-----------------|-----------|
| Dr. N. G. K. Sharma | 3 | |
| Dr. N. G. Dubhashi | 4 | |
| Dr. (Mrs) Lata Kamat | 3 | |

Research Projects by P. G. Students :

1. Clinical study of viral hepatitis -100 cases
2. Isapgot husk in the control of FBSUPPBSL in diabetes mellitus.
3. Non ulcer dyspepsia and upper G I endoscopy
4. Risk factors for ischemic heart in the middle and lower socio economic group.
5. Immonoglobulins in liver disease
6. Clinical & Microbiological profile and treatment of typhoid fever cases.
7. Cardiac status in alcoholism

b) By staff members :

1. Rise factors of ischemic heart disease in patients of low socio economic status.
2. An epidemiological study for the cause of high incidence of renal failure in South Goa.
3. Norbactin 400 gm in acute diarrhoeas.
4. A study of CVA in young population Goa.

Participation in Seminars, Conference, workshops :

| | | |
|---------------------|---|--|
| Dr. N. G.K. Sharma | : | Attended Oncology Conference held in Gwalior in January 1991. |
| Dr. (Mrs) L. Kamat | | Participated in CME Programme held in Bombay Indian Academy of Health Education on 10,11 & 12th May 1991. |
| Dr. Rufino Monteiro | : | Attended Workshop on Research Developments in Therapeutic Endoscopy at Sir Hurkisondas Nurrotumadas Hospital Bombay from 6-4-91 to 7-4-91. |
| Publications | | 2 |

B DEPARTMENT OF SURGERY:**1. Teaching and Research Staff in Department :**

| Name | Designation | Qualification |
|-------------------|--------------------------------|----------------------------------|
| Dr. W. K. Belokar | Professor of Surgery. | M.B.B.S., M.S., FICS(Uro) |
| Dr. Vasco D'Silva | Assoc. Prof. of Surgery. | M.B.B.S., M.S., F.I.C.S. |
| Dr. Oswald De sa | -do- | M.B.B.S., M.S. |
| Dr. V. N. Jindal | Assoc. Prof. of Neuro Surgery. | M.B.B.S., M.S., M.Ch. |
| Dr. A. N. Jadhav | Asstt. Prof of Surgery. | M.B.B.S., M.S. |
| Dr. D. P. Amonkar | -do- | M.B.B.S., M.S. |
| Dr. Carmo Colaco | Lecturer in Surgery. | M.B.B.S., M.S. |
| Dr. F. P. Noronha | | M.B.B.S., M.S., M.ch. |
| Dr. P. Gupta | Lecturer in Neuro Surgery. | |

2. Details of Research Students :

| Name of the teacher (Research Guide) | No. of students | Full-time |
|---|-----------------|-----------|
| Dr. W. K. Belokar | 2 | Full time |
| Dr. Vasco D'Silva | 3 | - do - |
| Dr. Oswald De Sa | 3 | - do - |
| Dr. A. N. Jadhav | 2 | - do - |

3. Research Projects by P. G. Students :

1. Clinical-Cyto pathological study of Breast Lump.
2. Clinical Comparative study of Millins Vis-a-Vis Frayers' prostatectom.

3. Complications of Diabetes Mellitus a clinical study.
4. Diagnostic aids and their clinical correlation in peritonitiies
5. Single Dose/Antimicrobial rophylaxis in Surgical Wounds.
6. Laproscopic valuation of intro abdominal malignancy.
7. Tumor of the Large Intestine.
8. Carcinoma of Penis.
9. Bile Composition of culture and gall stone analysis in Cholelithiosis.

4. Visitors to the Department :

Prof. Nandi, MS, M.ch. FRCS, Prof and Head of Gastrointestinal Surgery visited the department on June, 13th 1991 and spoke on "Liver Transplantation".

5. Participations in Seminars, Conference, Workshop etc. :

| | |
|-------------------|---|
| Dr. W. K. Belokar | 1. Participated at the Annual Conference of the Indian Society of Oncology 3-6, Jan. 1991 held at Cancer hospital & Research Institute at Gwalior (M. P.) Indore. 2. .Participated in IInd Indo Portuguese Meet. |
| Dr. Vasco D'Silva | 1. Participated in the Annual Conference ASI-KSC - National Week for surgical update. 2. .Participated in IInd Portuguese meet. |
| Dr. A. N. Jadhav | 1. Participated in A. S. I. Conference held at Indore - Dec. '90 to Jan'91. |

(C) DEPARTMENT OF OBST. AND GYNAEC :

1. Teaching and Research staff in the Department:

| Name Department of Obst. & Gynae. | Designation | Educational Qualification |
|--------------------------------------|--------------------|----------------------------|
| Dr. M. M. Pal | Prof. & Head (OBG) | MBBS.,DGO.,MD.,MNAMS FICS. |
| Dr. D. N. Buhariwalla | Assoc. Prof. (OBG) | MBBS.,MD. |
| Dr. Prasad Nevrekar | Asstt. Prof. (OBG) | MBBS., DGO., MD. |
| Dr. Milan Bhandare, | Asstt. Prof. (OBG) | MBBS., DGO., MD. |
| Dr. Anjali Kamat, | Lecturer (OBG) | MBBS., DGO., MD. |
| Dr. Savita Chandra, | Asstt. Prof. (PPP) | MBBS., MD. |
| ICMR (HRR) | | |
| Dr. Prasad Lad, | Research Medical | MBBS (BOM.) |
| Dr. Shantarma Shurmo | - do - | MBBS (BOM.) |

2. Contributory teachers :

22nd & 23rd June 1990 1) Dr. K. A. Dinshaw, Prof. of Radiotherapy, Tata Memorial Hospital delivered lectures on Cancer of breast, Brachytherapy and Cancer of cervix.

29th June 1990 2) Dr. S. H. Advani from Tata Memorial Hospital, Bombay delivered lectures on Progress in Cancer Chomotherapy, Non-hodgking Lymphemia, Diagnosis of Leukemia and Pediatric tumor and Bone Marrow transplantation.

On 30th June 1990 3) Dr. T. K. Saiki from Tata Memorial Hospital, Bombay delivered lecture on Treatment of all Gem Cell Tumor and Adult solid Tumor.

3. Visiting Teachers :-

- a) Dr. Hemalata Rangachari, Prof of Gynaec, Medical College, Hyderabad.
b) Dr. K. Lalita, Prof. of Gynaec, Medical College, Trivandrum.
c) Dr. R. S. Mahale, Prof. of Gyneac, Manag.

4. Details of Research Students:

| Name of the teacher | M.A., M.Sc. by research | | No. of students | |
|-----------------------|---------------------------|-----------|---------------------------|-----------|
| | No. of students Full time | Part-time | No. of students Full time | Part-time |
| Dr. M. N. Pai | Full time | nil | 4 | nil |
| Dr. D. N. Buhariwalla | | | 3 | |
| Dr. Prasad Nevrekar | | | 2 | |
| Dr. Milan Bhandare | | | 2 | |

5. Details of students who have completed their research projects :

| Sr. No. | Name of Candidates | Guide | Topics |
|---------|------------------------------|-----------------------|---|
| 1. | Dr. Meera Iyer (MD) | Prof. M. N. Pal | Review on Proterm Labour in GMC. UST in IUGR |
| 2. | Dr. Justino Pereira | - do - | |
| 3. | Dr. Guruprasad Pednekar (MD) | Dr. D. N. Buhariwalla | Significance of Abnormal CIT in pregnancy. |
| 4. | Dr. N. M. Hoskote (MD) | - do - | Role of MST/in high risk pregnancy. |
| 5. | Dr. Dattakumar Kunde | - do - | Myomectomy in GMC review |
| 6. | Dr. Jayashree Pavse (MD) | Dr. Prasad Nevrekar. | Colposcopic evaluation of cervical. |
| 7. | Dr. Eugene D'Silva | - do - | Review on placenta praevia in GMC. |
| 8. | Dr. Seema Kharanagate | - do - | Review on previous LSCS in GMS. |
| 9. | Dr. Sangeeta Taneja (MD) | Dr. Milan Bhandare | Morbidity after Caesarean section operation. |
| 10. | Dr. Ajit Mopkar (MD) | - do - | Review on PROM. |

1. Research Projects :

The Department is engaged in the conduct of the following I. C. M. R. Multicentric Research Projects.

- (a) Improving Utilisation of Spacing methods (IUD & OC) through the Strategy of Training & Counseling
(b) Intervention study to Improve the Existing MCH & FW Services at PHC level.

7. Participation in Seminars and workshop etc. :

- a) **Dr. M. N. Pal**, Prof & Head (OBG) attended the workshop on WHO/NIHFW Training in Family Welfare at Goa.
- b) Dr. Milan Bhandare, Asstt. Prof. (OBG) attended the 32nd All India Gynaecology Conference held at Mysore.
- C) Dr. Anjali Kamat, Lecturer (OBG) attended the Staff College Course form 2nd January to 31st January 1990 at New Delhi.
- d) Infertility Seminar - 1990 at Goa - Prof Michae Hull from Royal College of Obstereics & Gyneacology U. K.delivered a Guest Lecture on Ovulatory Dysfunctions.
- e) In the 33rd Annual All India Obstritics and Gynaecological Congress, Patna, Dr. Anil Pinto Sr. Resident read a scientific paper on Ectopic pregnancy.
- f) Besides a C. M. E. Programme was organised on 8th August 1990 at Ribandar Hospital for the Medical Officers from Directorate of Health services.
 - (i) Dr. M. N. Pal Prof & Head (OBG) Introduction & Panel Discussion.
 - (ii) Dr. D. N. Buhariwalla Associate Prof. (OBG) Panel Discussion
 - (iii) Dr. Milan Bhandare Asstt. Prof (OBG) Delivered lecture on Demonstration on Antenatal care.
 - (iv) Dr. (Mrs) Anjali Kamat Lecturer (OBG) delivered lecture on Postnatal care and first aid Management of Obstetrics emergencies. & Management if common Gynaecological Disease.
 - (v) **Dr. (Mrs) Savita Chandra** Asstt. Prof. (PPP) Delivered lecture on Methods of Family Wel-fare are (Non-surgical)

10. Publications

Dr. M. N. Pal

1. Review of Teen-age Pregnancy in Goa J. Obst & Gyn. Ind.39,473:1989
2. Influence of MCH on rural obstatics J.Obst & Gym. Ind. 39,126:1989.
3. True isolated Levocardin with Abdominal Situs invercus, **Ind.** Paed. 26,592:1989

Health Management Training

Dr. M. N. Pal, Officer-in-charge (HRRC) attended **a** Senior Level Management training at Indian Institute **of** Health Management & Research at Jaipur.

11. other details

Contribution of the department of individual member of staff to be over all growth of the University in such are-a as co-curricular activities like N. S. S., sports or cultural activities.

- a) Dr. M. N. Pal, **Prof & Head** (OBG) **is** appointed by the Ministry of Deafness, Govt. of India as Honorary Consultant of Armed Forces Medical Services.

Dr. M. N. Pal, Prof & Head Member of National Committee

- b)FOGS! Member on National Ethical and** Medico Legal Committee.
- C) FOGS' Member of Perintal Morality Committee
- d) National Advisory Committee on Adolescent Gynae & Obstetrics

Dr. M. N. Pal, Prof & Head'Member of Under Graduate Faculty.

- e) Member of Advisory Committee on Medical Education of Goa University.
- f) Member of Faculty of Medicine of Bombay University.
- g) Member of Board of studies of Surgery & Allied, Goa University.
- h) Member of Board of Surgery & Allied, Goa University.
- i) Dr. M. N. Pal, Prof & Head is appointed member of state Committee by the 'Govt. of Goa for ensuring quality Welfare Service in Goa.
- j) Submitted his report as Chairman on Under Graduate Medical Evaluation Committee of Goa University.

D) DEPARTMENT OF PAEDIATRICS

Teaching and Research Staff in the Department

Dr. H. B. Rao - Professor & Head, Department of Paediatrics Goa Medical College, Panaji.

| | | | |
|----------------------------------|--|------|--|
| | Qualification | i) | M. B. B. S. |
| | | ii) | M. D. (Paediatrics) |
| | | iii) | Paediatrics Resident State University of New York-U. S. A. |
| Dr. Philomena Pereira D'Souza | Asstt. Prof. of Paediatrics Qualifications | | M. B. B. S. M.. D. (Paediatrics) |
| Dr. Maria Piedade Rego Silveria. | Lecturer in Paediatrics. Qualifications | i) | M. B. B. S. |
| | | ii) | M. D. (Paediatrics) |
| | | iii) | D. C. H. |
| Dr. Kiran P. Sawardekar | Lecturer in Paediatrics. Qualifications | i) | M. B. B. S. |
| | | ii) | M. D. (paediatrics) |
| | | iii) | D. C. H. (C. P. S.) |
| | | iv) | D. N. B. (paediatrics) |
| Dr. Ameeta Mascarenhas | Sr. Resident Qualifications. | i) | M. B. B. S. |
| | | ii) | M. D. (paediatrics) |
| Dr. Muriel Sequeira | Sr. Resident paediatrics. Qualifications | i) | M. B. B. S. |
| | | ii) | M. D. (paediatrics) |
| | | iii) | D. C. H. (C. P. S.) |
| Dr. Sushma Dukle | Sr. Resident paediatrics. Qualifications | i) | M. B. B. S. |
| | | ii) | M. D. (paediatrics) |
| | | iii) | D. C. H. |
| | | iv) | D. N. B. (paediatrics) |

2. Visiting Teachers

Dr. Armida Fernandes, Professor of paediatrics (neonatology) L. T. M. G., College, Bombay, visited the department in the month of January 1991. It was highly successful visit.

3. Details of Research students (M. D. paediatrics)

- a) Dr. Sushma Dukle submitted a dissertation entitled Mantoux Reaction following B. C. G. vaccination for the M. D. degree in paediatrics. This dissertation was accepted and Dr. Sushma Dukle took the M. D. Paediatrics examination in January 1991 and passed the same with credit. The guide for her dissertation was Professor H. B. Rao.

Dr. Medha Prabhudesai submitted a dissertation on 'Intra Uterine Growth Retardation' as fulfillment of a partial requirement for the M. D. degree in Paediatrics was accepted.

Professor H. B. Rao was the guide for the dissertation.

Dr. Medha Prabhudesai took the M. D. examination in Paediatrics in July 1991 and passed the same with credit.

5. Research Projects

The following dissertations for M. D. degree in Paediatrics are under preparation :-

1. Dr. Sucheta Sardesai - Intermittent Short Term Chemotherapy for preparation :-
2. Dr. Sparsh Kapur - 'Screening test for bacterial etiology in infantile diarrhoeas.
3. Dr. Swati Naik - A study of enteric fever in Children.
4. Dr. Beryl Antao - ' KAP Study on the mothers of children admitted with Kwashiorkor

6. Participation in Seminars, Conferences, Workshops etc.

1. **Dr. H. B. Rao, Prof. of Paediatrics** attended the National Conference of the Indian Academy of Paediatrics at Hyderabad, in January, 1991.
2. **Dr. Philomena Pereira D'Souza, assistant Professor of Paediatrics** attended the Indo-Portuguese Meet of Medicine and Surgery in November 1990 and the International Symposium-cum-Workshop on Anemia in Children in February'91.
3. **Dr. M. P. Silvera, Lecturer** attended the following-workshops and conferences.
 - a. Indo-Portuguese Meet of Medicine and Surgery in November 1990.
 - b. National Conference of I. A. P. in Hyderabad in January'91.
 - c. International Symposium-cum-Workshop on Anemia in children in February, 1991.

7. Publications

There were no publications from the department during the period of review.

E) DEPARTMENT OF ORTHOPAEDIC SURGERY

1. Teaching and Research Staff in the department

| Name | Designation | Qualifications |
|-----------------------|--------------|---|
| Dr. U. G. Nachinolkar | Prof. & Head | D.Ortho. (Madras) M. S. Ortho. (BOM.) F. A. C. S. |

| | | |
|---------------------------|-----------------|--------------------|
| Dr. S. Choudhry | Assistant Prof. | M. S. Ortho. |
| Dr. C. Baretto | Lecturer | M. S. Ortho (BOM.) |
| Dr. R. Nachinolkar M. S., | : Sr. Residents | |
| Dr. V. Chodankar M. S., | | |
| Dr. S. Bandekar, M. S., | | |

2. Participation in Seminar, Conferences, Workshops, etc :

Participated and presented a paper at the I. O. A. Annual Conference held at Vishakapatnam in December, 1990.

F) DEPARTMENT OF OPHTHALMOLOGY

1. Teaching and Research Staff in the department:

| Name | Designation | Qualification |
|------------------------|--------------|--------------------------------------|
| Dr. Y. C. Arora | Professor | M. S. D. O. |
| Dr. Pradeep G. Naid | Asstt. Prof. | M. S. (BOM.) D. O. M. S. (CPS) |
| Dr. Kadambari Kulkarni | Sr. Resident | M. S. D. N. B. |
| Dr. Jeena Mascarenhas | Sr. Resident | M. S. |
| Dr. Vivek Naik | Sr. Resident | M. S. |

2. Participation in Seminars, Conferences, Workshops etc :

Dr. Pradeep, G. Naik attended "Hand on work-shop on Radial Keratotomy and contact lenses at A. I. I. M. S. New Delhi for three months.

G) DEPARTMENT OF E. N. T.

1. **Teaching and Research Staff in the Department** Dr. C. P. Das, Assistant Professor,
Dr. Jagdish Naik & Dr. Jorson Fernandes - Senior Residents.

2. Participations in Seminars, Conferences, workshops, etc.

Participated in advances Neuro autology at Nair Hospital Bombay.

H) INSTITUTE OF PSYCHIATRY & HUMAN BEHAVIOUR:

1. Teaching and Research Staff in the Department

| Name | Designation | Qualification |
|------------------------------|------------------|---|
| 1. Dr. Joao Maria Fernandes. | Director & Prof. | M. B. B. S. (BOM.) M. D. (BOM.) F. I. P. S. |

| | | |
|------------------------------------|-----------------------------|--|
| 2. Dr. (Kum) Pushpabai J. Dukle | Asstt. Prof. | M. B. B. S. M. D. (BOM.) D. P. M. |
| 3. Dr. Damodar Kukalekar. | S.Community Psychiatrist | M. B. B. S. M. D. (BOM.) D. P. M. |
| 4. Shri. P. K. Chakraborty | Clinical Psychologist | M. A. (Psychology) Diploma in Medical and social Psychiatry. |
| 5. Dr. Asha Thakar | Lecturer | M. B. B. S. M. D. D. P. M. |

RESEARCH STAFF

| | | |
|-----------------------------------|--------------------------|----------------------------------|
| 1. Dr. Nona Sukhija | Research officer | M. B. B. S. D. P. M. |
| 2. Mrs. Samira Da Costa Campos | Laboratory Technician | Laboratory Technician course. |

2. Details of Research students :

| | |
|--|--|
| Name of the teacher Dr. J. M. Fernandes | No. of students(Research guide) Full-time M. D. - 2 D. P. M. - 6 |
|--|--|

3. Research Projects :

Etoperidone in depression 1989-90

3. Visitors to the Department :

| Name | Designation | Qualification |
|----------------------------|---|---------------|
| Dr. (Mrs) H. S. Dhavale | Prof. & Head. Prof. in Psychiatry T. N. Medical College/ B. Y. L. Nair, Ch. Hospital Bombay, Central, Bombay. | M. D. |

4. Publications of Individual staff members :

Dr. J. M. Fernandes Clinical evaluation of Haloperidol Director & Prof. Decanoate (1 M) in chronic seizophrenia (paper presented at the 21st Annual Conference at Indian Psychiatry Society West Zone 13th and 14th Oct., 1990 in Goa.

5. Participations in Seminars, Conferences, Workshops, etc :

1. Organised the 21st Annual Conference of Indian Psy. Society (West Zone) 13th to 14th Oct. 1990, Majorda.
2. Participated in XX VIII Annual National A. I. O. T. A. Conference held on 26th to 28th Oct. 1990 - Goa Medical College at Hotel Fidalgo, Goa.

I) DEPARTMENT OF RADIOLOGY

1. Teaching and Research staff in the department

| Name | Designation | Qualification |
|---------------------|--------------|----------------------|
| Dr. G. K. Mishra | Professor | MBBS, MD |
| Dr. Mahesh Sardesai | Asstt. Prof. | MBBS, MD, DMRD, DMRT |
| Dr. Jeevan Vernekar | Lecturer | MBBS, MD, MNAMS |

2. Details of Research Students

| Name of Teacher (Research Guide) | No. of Students | |
|-------------------------------------|-----------------|------|
| | M.D. | DMRD |
| Dr. G. K. Mishra | 3 | 2 |
| Dr. Mahesh G. Sardesai | 3 | 2 |

One student has completed his dissertation for MD

J) DEPARTMENT OF ANESTHESIOLOGY

1. Teaching and Research staff in the department

| Name | Designation | Qualifications |
|-------------------------------|--------------------------------------|--|
| Dr. Ramakant N. Shetti | Professor | MBBS, D.A., M.S., F.I.C.S. |
| Dr. (Mrs) Bhakti Ram Naik | Asstt. Prof. | MBBS, D.A., M.D. |
| Dr. (Mrs) Marilyn P. Nazaretj | Asstt. Prof. | MBBS, D.A., M.D. |
| Dr. (Mrs) Dalia Bhandare | Lecturer | MBBS, D.A., M.D. |
| Dr. Sitaram V. Korgaonkar | Lecturer | MBBS, D.A., M.D. |
| Dr. (Mrs) Shaila Kamat | Registrar Aneathetist P. P. P. | MBBS, D.A., M.D. Diploma in acupuncture |
| Dr. L. Irineu D'Cunha | Senior Resident | MBBS,D.A. |
| Dr. Chitra Juwarkar | Senior Resident | MBBS, M.D. |
| Dr. Anand Kamat | Senior Resident | MBBS, M.D., M.N.A.M.S. |
| Dr. Maria Olga | Senior Resident | MBI3S, M.D., M.N.A.M.S. |
| Dr. Suryaji Mandlikar | Senior Resident | MBBS, D.A. |
| Dr. Arto Nadkarni | Senior Resident | MBBS, M.D. |
| Dr. Prashant Kakodkar | Senior Resident | MBBS, D.A. |
| Dr. Peres D'Silva | Senior Resident | MBBS, M.D. |

2. Details of Research students:

| Name of the teacher (Research guide) | Name of the student | Registered for | Full/Part time |
|---|----------------------|----------------|----------------|
| Dr. R. N. Shetti | Dr. Maria Gomes | M. D. M. | Full time |
| | Dr. Anand Sagar | D. K. V.M. | |
| | Dr. Sudhakaran | D. | " |
| | Dr. Anita Narayana | M. D. | |
| | Dr. Sucheta Kuvelkar | M. D. | |
| | Dr. K.B. Muneer | M. D. | |

| | | |
|------------------------------|--------------------------|--------------|
| | Dr. Sinita Heskete | D. A. |
| | Dr. Cessete Nornha | D. A. |
| | Dr. Maria Gloria D'Silva | D. A. |
| Dr.(Mrs) Marilyn P. Nazareth | Dr. Pratima P. Desai | M. D. |
| | Dr. Sanjay Bhandankar | M. D. |
| | Dr. Manuala Souza | M. D. |

3. Research Projects :

The following thesis topics are in progress :-

- i) Evaluation of Intra Theca! Buprenorphine
- ii) Evaluation of Intra Muscular Buprenorphine
- iii) Infra Occular pressure under various muscle relaxants.
- iv) Use of Nitro gulcerine for reducing vogal inhibition.
- v) Incidence of Post Spinal Headache.
- vi) Evaluation of Eskaging
- vii) Evaluation of vacuronium or muscle relaxants.

4. Vistors to the Department

The following were the Visitors :-

Dr. (Mrs) Leela

Dr. Deshpande A.M.

Dr. Ballad

Dr. Lt. Col. Dr. S. P. Mehta

As a Examiner

5. Participation in Seminars, Conference, Workshops etc :

- i) Presented 2 papers at the 29th Annual Conference of Indian Society of Aneathetist held at Madras.
- ii) Department has participated in lecture by the Indian Society if Aneathetists (Goa State Branch)
- iii) Department has participated activities of Indian Medical Association and Staff Society of Goa Medical College'.
- iv) Dr. R. N. Shetti, guest speaker at C. M. E.
- v) Speaker at Annual Conference of Indian Medical Association!
- vi) Dr. R. N. Shetti, Hon. Secretary of Indian Medical Association Goa State Branch.
- vii) Dr. R. N. Shetti, was External Examiner to Bangalore, Mysore and Chandigarh and Internal Examiner to Goa University.
- viii) Dr. R. N. Shetti is on the Board of Studies for P. G. Medical Education for JIPMER : Pondichery University and Kamatak University.
- ix) Dr. R. N. Shetti, organised 2nd Indo-Portuguese Meeting at Goa Medical College, Panaji-Goa.
- x) Dr. (Mrs) Dalia D. Bhandare attended continuation in Medical Education organised by Indian Society of Aneathesia, Madras, in Dec. 1990, also attended Conference of Indian Society of Aneathesia at Madras in December, 1990.

6, Publications :

Two articles published in Indian Journal of Aneathesia.

7. Other details :

Dr. R. N. Shetti is a member of Board of studies.

K) DEPARTMENT OF T. B & CHEST DISEASES:

1. Teaching and Research staff in the department :

Teaching staff :

| Name | Designation | Qualification |
|--------------------|--------------|----------------|
| Dr. A. S. Bagga | Prof & Head | M. D., T. D. D |
| Dr. A. M. Mesquita | Assoc. Prof. | M. D. |
| Dr. Durga Lawande | Asstt. Prof. | M. D. |
| Dr. A. L. Da Costa | Lecturer | M. D. |

Research Staff:

| | | |
|----------------------|-----------------|--------------------------------|
| Mr. B. P. Srinivasan | Pharma. Chemist | M. Sc. (Pharmac.) Up to Oct'90 |
| Mrs. Milan Saudagar | Palynologist | M. Sc. (Paly.) |
| Miss Mita Mazumdar | Psychologist | M. A., Ph. D (Psy) |

Details of Research Students

| Name of the teacher (Research Guide) | M. D. By Research | |
|---|-------------------|---------------------|
| | No. of students | Full time/Part time |
| 1. Dr. A. S. Bagga | Three | Full time |
| 2. Dr. A. M. Mesquita | Two' | Full time |

Research Projects :

Projects of Dr. A. S. Bagga

- Lung Biopsy and Pleural Biospy** procedures are being established **among respiratory** diseases.
- Assesment and Prognosis of Cor-pulmonale patients admitted in the Chest Disease hospital.
- Probability of double registration among T. B. patients.

Research projects of Dr. A. M. Mesquita :

- Role of cashew (*Anacardium Occidentals*) pollen antigen in cases of Bronchial Astma in Goa.

Visitors to the Department :

The following visited the Department of T. B. & Chest Diseases:

| | |
|-----------------------|---|
| Dr. P. V. P. Rao | Prof. & Head, Dept. of Chest Medicine, Manipal Medical College, Manipal. |
| Dr. A. A. Mahashpur | Prof. & Head, Dept. of Chest Medicine, KEM Hospital, Bombay. |
| Dr. Pande | Prof. & Head, A. I. I. M. S., Delhi. |
| Dr. D. D. S. Kulpathi | Medical Suptd., Jaiprakash Narayan Hospital New Delhi. |
| Dr. Kusum Ben Shah | Prof. & Head, Ahmedabad. |
| Dr. D. R. Doshi | Prof. & Head, Pune |

Participation in Seminars, Conference Workshops, etc :

Dr. A. S. Bagga - Presided over the 10th National Congress on Respiratory Diseases at Bombay during December 1990.

Dr. A. M. Mesquite - Participated in the 10th National Congress on Respiratory Disease at BOMBAY in December 1990.

Dr. A. M. Mesquite - attended the Workshop of Aerobiology Allergy and Applied Immunology at Bangalore in February'90.

L) DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE:

1. Teaching and Research staff in the Department

| Name | Designation | Qualification |
|--------------------|-----------------------------|--|
| Dr. S. B. Dixit | Prof. & Head | M. D. (S.P.M.) |
| Dr. A. M. Ferreira | Lecturer (P.S.M.) | M. D. (P.S.M.) |
| Mr. Vidal D'Souza | Lecturer (Health Education) | M.A. Postgraduate certificate in Health Education Postgraduate Diploma in Population Education. |
| Mr. Harikumar P. | Lecturer (Demography) | M.Sc |

2. Details of Research Students :

| | |
|----------------------------|------------------------------------|
| Name of the teacher | : Research Guide Dr. S. B. Dixit. |
| Number of students | : 6) 3 DPH & 3 M. D. All full time |

| Research Project submitted | Course | Title of the project |
|----------------------------|--------|---|
| Dr. Shivanand Priolkar | M. D. | "Utilization of Maternal child Health and Family Planning Services in Rural area". |
| Dr. Damesh Volvoikar | D.P.H. | "Evaluation of Vaccination Coverage". |
| Dr. Shubhangi Rivonkar | M. D. | "A Clinical and Social study of the people (60 years & above) under Goa Velha subcentre." |
| Dr. Albert D'Souza | M. D. | " A Social Medical Study of slumdweller's of Panaji City. " |
| Dr. Shashikala Agarwal | D.P.H. | "Prevalence of Hypertension in a semi- urban population of Goa. " |
| Dr. (Mrs) S. Sharma | M.D. | " A study of indeer-patients opinion for assessment of levels of satisfaction with services provided at Goa Medical College Hospital " |

3. Research Projects:

Presently department is engaged in various research projects conducted, but not sponsored by University or I. C. M. R. etc.

4. Participation in Seminars, Conferences, Workshops etc :

Dr. S. B. Dixit, Dr. A. M. Ferreira, Mr. Vidal D,Souza and Mr.Harikumar P. attended and presented a paper each at the XX

National *Conference* of IAPSM Pune during November 1990. Dr. S. B. Dixit was invited to attend a press conference workshop sponsored by INICEF on "Child Survival" during the Conference.

Dr. S. B. Dixit attended and presented a paper at IPHA held at Karad, Maharastra in February 1991.

Dr. S. B. Dixit was invited to act as a resources person by 'National Institute of Public Co-operation and Child Development 'in the workshop on the role of 'Essential drugs in primary Health Care' conducted by NIPCCD, Bangalore June'90.

Dr. S. B. Dixit and Mr. Agenlo Fernandes participated in the 'World Congress on AIDS' held at Bombay during December'90.

Dr. S. B. Dixit was invited as an technical advisor to assist UPSC in combined Medical Services Examination on two accasion during October/November '90.

Mr. Harikumar P. participated in "All India State Demographers Conference "jointly organised by NIHFW & IIPS during January'91.

Dr. A. Ferreira participated in staff college course at NIHFW, New Delhi, January, 1991.

5. Publications :

A research paper entitled "Gender preference in Goa" was published in Indian Journal of Maternal Child Health "by Harikumar P., A. Ferreira & Dr. S. B. Dixit in April '91.

M) DEPARTMENT OF SKIN & V. D.

1. Teaching and Research staff in the department :

| Name | Designation | Qualification |
|--|---|---------------------------------------|
| Dr. V. L. Rege, Dr. Maria Flora Mascarenbas | Prof. & Head Lecturer in skin & V. D. | D.V.D., M.D. D.D.V.,M.N.A.M.A. |

2. Details of Research students

| | |
|---|---|
| Name of the teacher (Research Guide) | M. D. by research No. of Students : Three Full Time Part Time |
| Dr. V. L. Rege | Three |

3. Publication

A case Report entitled "PHENYTOIN ENDUCED PSEUDOLYMPHOMA SYNDROME "is sent for publication.

N) DEPARTMENT OF PATHOLOGY

1. Teaching and Research staff in the department:

| Name | Designation | Qualification |
|------------------------|----------------------|--------------------------|
| Dr. Suzette Manezes | Professor | Medico-cirurgiao |
| Dr. Nisha Nadkarni | Assoc. Prof. | M. B. B. S., M. D. |
| Dr. R. G. Wiseman | PintoAsstt. | Prof. M. B. B. S., M. D. |
| Dr. M. V. Mallaya | Lecturer | M. B. B. S., M. D. |
| Dr. Avril Dias | Demonstrator | M. B. B. S., M. D. |
| Dr. Francisco Couto | Demonstrator | M. B. B. S., M. D. |
| Dr. Mohan Pai Raikar | Demonstrator | M. B. B. S., M. D. |
| Dr. Karen pinto | Demonstrator | M. B. B. S., M. D. |
| Dr. Marlon Pererira | Demonstrator | M. B. B. S. |
| Dr. Subhnagi Tambwekar | Demonstrator | M. B. B. S. |
| Dr. Premila D'Souza | Resident Pathologist | M. B. B. S. |
| Dr. Suresh Mandrekar | P. G. Student | M. B. B. S. |
| Dr. Sanjyot Nadkarni | | |

2. Details of Research students:

| Name of the teacher (Research Guide) | No. of students | |
|---|-----------------|-------------|
| | Full time | Part time |
| Dr. Mrs. Suzette Menezes | One - Full time | |
| Dr. Mrs. Nisha Nadkarni | One - Full time | |
| | P. G. Student | M. B. B. S. |

Details of students whg have completed their research project submitted dissertations or thesis.

1. Dr. Marlon **0**. Pereira completed his dissertation "IMMUNOGLOBULINS IN TUBERCULOSIS". Under the guidance of Dr. Mrs Suzette Menezes.
2. Dr. Premila D'Souza completed her dissertation in " FINE NEEDLE ASPIRATION OF BENIGN & MALIGNANT BREAST LESIONS & ITS HILTOPATHOLOGICAL CORRELATION ". Under the guidance of Dr. Mrs. Nisha S. Nadkarni.

3. Research Project

Research Projects are being conducted on our own and not sponsored by the University or other organisations.

3. Participations in Seminars, Conference, Workshops, etc.

- A. C. M. E. and P. G. Course in Pathology held at J. N. Medical College Belgaum from 1-6- 90 to 4-6-90.
Dr. Francisco Couto.
- B. Workshop on Cytology at Belgaum on 29-10-90
Dr. R. G. W. Pinto
Dr. Francisco Couto.
- C. Conference on I. A. C. held at J. N. M. C.,Belgaum from 30-10-90 to 31-10-90.
Dr. R. G. Wiseman Pinto

Dr. Avril Dias.
Dr. Francisco Couto

- D. They presented papers titled - Idiopathic Eosinophilic pleural Effusion at Indian Academy of Cytology conference held in Belgaum.
F. N. A. C. of islet cell tumor of Pancreas.
Neuroendocrine Carcinoma of Ovary diagnosed by PAP Smear
- E. Delegates at the 11th Indo-Portuguese conference on Medicine & Surgery held in Goa from 19-11-90 to 23-11-90 attended by dr. Suzette Menezes.
Dr. Nisha Nadkarni
Dr. R. G. Wiseman Pinto
Dr. Francisco Couto
- F. Workshop & Seminal on "Medical Educational Technology" held at ST. John's Medical College, Bangalore from 17-5-91 to 19-5-91.
- G. Workshop on "Microtomy., Routine Stains common Special Stains including Immunoperoxidase & Immunofluorescence Staining " held at St. John's Medical College, Bangalore from 20/5/91 to 25/5/91.
- AND
- H. Workshop on "Fine Needle Aspiration Cytology, Junior and Senior level "held at Johns's Medical College, Bangalore from 27/5/91 to 29/5/91 and from 30/5/91 to 31/5/91.
Dr. Francisco Couto.
- G. C. M. E. & P. G. Course in Pathology held at J. N. Medical College Belgaum from 3/6/91 to 6/6/91.
Dr. Francisco Couto.
Dr. Shubanghi Tambwekar, and P. G. Students
Dr. Premila D'Souza.
Dr. Suresh Mandrekar

4. PUBLICATIONS:

June 90 - May 1990

Menezes S : Quitting the Habit, Boletim do Instituto Menezes Branca, Vol 161, 21-24, 1990

Pinto R. G. W. & Menezes S : Accessory Right Auxiliary Breast Diagnosed by F. N. A. C.; Indian Journal of Cyto logy Vol. 7, 25.6.90

Mishra Y. C. and Nadkarni N. S.:
Mucoepidermoid Carcinoma of Minor Salivary Gland. Journal Pierre Fauchard Academy Vol. 4, 165-167, 1990.

Nadkarni N. S. and Rebello, M. J.
Subcutaneous Angiolymphoid Hyperplasia with Eosinophilia Indian Journal of Pathology and Microbiology - 331
Supplementary issue 118, 123, 1990.

Pinto R. G. W., Nadkarni N. & Menezes S.
FNAC of Islet Cell Tumor of Pancreas (Non Functional)
A case report. Presented at XX Annual Conference of IAC at Belgaum.

Couto, F., Pinto, R. G. W. & Menezes, S:
Idiopathic Eosinophilic Pleural Effusion - A case report presented at XX Annual Conference of IAC AT Belgaum.

Couto, F., Pinto, R. G. W., Nadkarni, S:
Idiopathic Eosinophilic Pleural Effusion - A case report presented at XX Annual Conference of IAC at Belgaum.

0) DEPARTMENT OF BIOCHEMISTRY

1. Teaching and Research staff in the department:

| Name | Designation | Qualification |
|--------------------------|--------------|--|
| Dr. S. Pamnani | Professor | M. B. B. S. - 1968 and M. D. -1973. |
| Dr. S. Chakrabarti | Assoc. Prof. | M. B. B. S. - 1978 and M. D. -1985. |
| Dr. (Mrs) P. P. Nadkarni | Demonstrator | M. B. B. S. - 1969. |
| Dr. Mrs. A. A. Naik | Demonstrator | M. B. B. S. - 1972. |
| Dr. B. R. Shah | Demonstrator | M. B. B. S. - 1987. |

2. Research Projects

1. Lipid peroxidation induced proteolysis in human erythro cytes. 20.2.1989. Finances by R. D. Birla Smark Kosh, Bombay.
2. Glucose intolerance Lipid Profile Urban and Rural areas in Goa.
3. Biochemical profile of patients undergoing stress test at Gsba Medical College.
4. Effects of under nutrition on protein, protein kinoxase -C dependent Phosphorylation in rat brain. Financed by Roussel Scientific Institute, Bombay.

P) DEPARTMENT OF PHYSIOLOGY

1. Teaching and Research staff in the Department

| Name | Designation | Qualification |
|-------------------------------|--------------|---|
| Dr. Mrs. Jolly F. Mascarenhas | Professor | M. B. B. S. (BOM) M. Sc. (Med. Bom) |
| Dr. R. A Dhume | Assoc. Prof. | Medico Cicurgiao (Goa) M. B. B. S. (Born) M. D. (Human Phys. (Born) |
| Dr. Mrs. M. E. Abraham | Asstt. Prof. | M. B. B. S. M. D. (Born) |
| Dr. Mrs. A. S. Borkar | Asstt. Prof. | M. B. B. S. (born) M. D. (Born) |
| Dr. V. K. Mulgaonkar | Lecturer | M. B. B. S M. D. (Born) |
| Dr. Mrs. P. Monteiro | LecturerM. | B. B. S (Born) M. D. (bom) |
| Dr. Mrs. A. Noronha | Demonstrator | M. B. B. S. (Jiwaji) M. D. (Born) |

| | | |
|-------------------------|--------------|--|
| Dr. Mrs. S. D. Sahakari | Demonstrator | M. B. B. S. (born) M. D. (born) |
| Dr. Mrs. M. D. Nagwekar | Demonstrator | M. B. B. S. (Karnataka) M. D. (Born) |
| Dr. J. R. Sardessai | Demonstrator | M. B. B. S. (Born) M. D. (Born) |
| Dr. S. R. Sardessai | Demonstrator | M. B. B. S. (Born) M. D. (Goa) |

2. Details of Research students :

| Name of the teacher (Research Guide) | No. of students for M. D. | Topic of dissertation |
|---|------------------------------|---|
| 1. Dr. Mrs. M. E. Abraham | 1 | Relationship of alcohol intake with immune responses. |

Details of students who have completed:

1. Dr. S. R. Sardessai completed and got M. D. Physiology Jan. 1991
2. Dr. Premam Venkatesh completed and appeared for M. D. Physiology July 1991.

3. Visitors to the Department :

Dr. Santosh Kelekar Ph. D., a post-doctoral fellow of Baylor College of Medicine, Houston, Texas visited the Department of Physiology, Goa Medical College on 8. 4. 91 and spoke to the teaching faculty on his work "Genes, nerve and epilepsy".

4. Participation in Seminars, Conferences, workshops, etc.

Dr. R. A. Dhume, Assoc. Prof. of Physiology, Goa Medical College, Bambolim-Goa, to USSR from 13.10.90 to 19.10. 90 under USSR-INDO Plan of Co-operation in the field of Neurophysiological basis of Motivation and Emotional stress.

Dr. Dhume presented his work undertaken in the Dept. of Physiology, Goa Medical College as well as done in P. K. Anokhin Institute of Normal Physiology on his earlier visit to Moscow of six weeks in October - November 1988.

0) DEPARTMENT OF FORENSIC MEDICINE:

1. Teaching and Research staff in the Department :

| Name | Designation | Educational Qualifications. |
|------------------------|------------------------|--|
| Dr. B. N. Reddy | Professor | M. D. (Forensic Medicine D. F. M. Osmania Univ.) |
| Dr. P. S. Audi | Assistant Professor | Medico-Cirurgiao (Portuguese Medical Qualifications) M. D. (Forensic Medicine) D. P. B. (C. P. S.) M. D. (Forensic Medicine) |
| Dr. M. S. Usgaonkar | Lecturer | M. D. (Forensic Medicine) |
| Dr. E. Rodriguese | Demonstrator | D. F. M. (Bombay University) M. D.(Forensic Medicine Born.) |

2. Details of Research students:

| Name of the teacher | No. of students | | No. of students | |
|---------------------|-----------------|---------------------|-----------------|---------------------|
| | MA/M.Sc | Full time Part time | MD for Medicine | Full time Part time |
| Dr. B. N. Reddy | Not applicable | | 1 | Nil |
| Dr. M. S. Usgaonkar | - do - | | 1 | Nil |

3. Participation in Seminars, Conferences, workshops, etc :

| | |
|-------------------|---|
| Dr. B. N. Reddy | Nation symposium on embalming body of AIDS Hepatitis B Virus and other notifiable infections (Sponsored by WHO) New Delhi 18-19 January 1991. |
| Dr. E. Rodriguese | 13 th Annual Conference in Indian Academy of Forensic Medicine at Varanasi from 19th to 21st February 1991. 12th Courses on orientation to Forensic Science and Medicine New Delhi from 4th to 8th March 1991. |

R) DEPARTMENT OF MICROBIOLOGY:

1. Teaching and Research staff in the Department

| Name | Designation | Qualification |
|-----------------------------|---------------------|----------------------------------|
| Dr. Inderjit Singh | Prof. & Head | M. B. B. S. |
| Dr. (Mrs) M. P. Vernekar | Assoc. Prof | M. D. (Micro) M. B. B. S. |
| Dr. Savio Rodriguese | Asstt. Prof. | M.D.(Path & Bact) M. B. B. S. |
| Dr. Venkatesh Naik | Demonstrator | M. D. (Micro) M. B. B. S. |
| Dr. (Mrs) Neena Kharanagate | LC | M. D. (Micro) M. B. B. S. |
| Dr. (Miss) Maria Jose Pinto | 11 | M. D. (Micro) M. B. B. S. |
| Dr. (Mrs) Nilnage Virginkar | 11 | M. D. (Micro) M. B. B. S. |
| Dr. Kishore Nagvenkar | Res. Microbiologist | M. D. (Micro) M. B. B. S |

2. Details of Research projects :

| Name of the teacher | No of students |
|--------------------------|----------------|
| Dr. Indedit Singh | 3 |
| Dr. (Mrs) M. P. Verenkar | 2 |

3. Research Project:

1. Project sponsored by ICMR Sentinel Surveillance of AIDS
2. Study of Cholera in Goa.
3. Isolation & Speciation of Mycobacteria from clinically suspected lymphadenitis. cases of tuberculosis

4. HBSAG and Immunoglobulin levels in cases of Hepatitis and at risk individuals.
5. Clinicobacteriological study of C. S. F. samples by bedside inoculation technique in clinically suspected cases of pyogenic meningitis.
6. Clinicobacteriological study of diarrhoea in infants and children.
7. Salmonella gastroenteritis in Goa.
8. PGL antibody in leprosy.
9. W. H. O. collaborative study on A. B. S. Resistance in India.

4. Participation in Seminars, Conferences, Workshops, etc. :

- i. Dr. Inderjit Singh, Prof. & Head December, 1990

5. Publications:

- i) HIV infections and sexually transmitted diseases in Goa, India.
- ii) Tinea capitis due to Trichopyhton Schienleinii
- iii) Clinico-Microbiological study of Dermatophytoses.
- iv) Salmonellosis in Goa.

6. Other details :

M. D. Microbiology degree of Goa University has been recognised by MCI vide letter no. Acak/Insp. Exam/91/GMD/637 dated 31. 7. 91.

S) DEPARTMENT OF PHARMACOLOGY:

1. Teaching and Research staff in the Department :

| Name | Designation | Qualifications |
|------------------------------|---|----------------------------------|
| Dr. V. G. Dhume | Prof. & Head of the Department | M.D. (Pharmacology) |
| Dr. N. V. Agshikar | Asso c. Prof. | M. D. (Pharmacology) |
| Dr. (Mrs) Rosa Diniz D'Souza | Asstt. Prof. | M. D. (Pharmacology) |
| Dr. (Mrs) S. S. Hede | Lecturer | M. D. (Pharmacology) |
| Dr. J. S. C. Pereira | Lecturer | M. D. (Pharmacology) |
| Dr. (Mrs) S. A. Bhounsule | Demonstrator | M. D. (Pharmacology) |
| Dr. (Mrs) P. N. Bhandare | Demonstrator | D. G. O. M. D. (Pharmacology) |
| Dr. P. V. Rataboli | Demonstrator | M. D. (Pharmacology) |
| Shri. V. R. Naik | Pharmaceutical Chemist Research M. Pharm. | |

2. Details of Research students (Post-graduate students)

| Name of the teacher (Research Guide) | M. D. (Pharmacology) | |
|---|----------------------|-----------|
| | Full time | Part time |
| Dr. V. G. Dhume | One | Nil |
| Dr. N. V. Agshikar | One | Nil |

Dr. P. V. Rataboli passed M. D. (Pharmacology)) of Goa University in January 1991.

3. Research Projects :

The Department is engaged in screening marine products for biological activity. This is three year multi-centric project sponsored by the Department of Ocean Development, New Delhi.

4. Participation in Seminars, Conferences, Workshops, ect :

Prof. V. G. Dhume, participated in a workshop on " Development of potential Drugs from the Ocean" sponsored by Department of Ocean Development, Government of India at Lucknow on 8.6.90.

5. Publications :

- i) Bhounsule, S. **A.**, Pereira, J. S., Hede and S. S. Diniz R. S. (1991)
Effect of captopril on oxyphenbutazone and ethanol induced gastric lesions in rats.
European J. Pharmacol, 177, 87-90.
- ii) Diniz, R. S., Bhounsule, S. A. and Dhume, V. G. (1990) comparison of the effects of captopril and enalapril on oxyphenbutazone and ethanol-induced gastric lesions in rats. Ind. J. Physiol. Pharmacol. 34(3), 206-208.
- iii) Bhandare, P. **N.**, Diniz, R. S., Mayenkar, A. V. and Dhume, V. G. (1990)
Protective effect of propranolol on ethanol-induced gastric haemorrhagic lesions
European J. Physiol. pharmacol. 34(3), 206-208.
- iv) Deniz, R. S., Bhandare, P. N. and Dhume, V. G. (1990) Gastric lesion aggravating action of clonidine :probable mechanism of action.
- v) **Hede**, S. S., Diniz,,R. S., Agshikar, **N. V.** and Dhume, V. G. (1991) Learning habits among medical students.
Ind. J. Pharmac. 23. No. 3

6. Other details :

The Department is monitoring adverse drug reactions (ADR) of certain drugs in hospitalised patients viz. Antimicrobials, Analgesicpanti. inflammatories/Parenteral fluids etc.

T) DEPARTMENT OF ANATOMY

1. Teaching and Research staff in the department :

| Name | Designation | Qualifications |
|---------------------------|--------------------|---|
| Dr. G. J. Bhandare | Assoc. Prof. | M. B. B. S. (Born) B. Sc. (Med) (Born) M. Sc. (Mio) (Born) |
| Dr. R. B. Dessai | Asstt. Prof. | Medico Surgeon (Goa) Lic in Med. (Portugal) M. Sc. (Med) (Anat) (Born) |
| Dr. A. V. Mainker | Asstt. Prof. | M. B. B. S. M. Sc. Anatomy |
| Dr. M. V. Bargi | Lecturer | M. B. B. S. M. S. Anatomy |
| Dr. A. A. Nagarsenkar | | M. B. B. S. (Born. Univ.) M. S. (Born. Univ.) |

| | | |
|-----------------------|--------------|---|
| Dr. U. P. Bhate | Demonstrator | M. B. B. S. (Born. Univ.) M. S. (Born. Univ.) |
| Dr. P. R. Pal | Demonstrator | M. B. B. S. (Born. Univ.) |
| Dr. M. P. Dias | Demonstrator | M. B. B. S. (Born. Univ.) M. S. Anatomy (Born. Univ.) |
| Dr. R. N. Dubhashi | Demonstrator | M. B. B. S. (Born. Univ.) M. S. (Born. Univ.) |
| Dr. P. E. Natekar | Demonstrator | M. B. B. S. (Born. Univ.) M. S. (Born. Univ.) |

2. Details of Research students :

| Name | Name of the Guide | Qualification | Dessertation topic |
|--------------------------|--------------------|--------------------|--|
| Dr. Mrs. Aruna Mukherjee | Dr. G. J. Bhandari | M. B. B. S. | Feet on analytical interpectation. |
| Dr. Deepti | Dr. A. V. Mainker | M. B. B. S. | Teratogenicity of phenobandritone sodium absorbed across the chorine allantsic membrane in chick embryo. |

3. Participation in Seminars, Conferences, Workshops, etc :

Dr. Prashant Natekar : Departmental seminar, journals, clubs. (Participated in Workshop on Human Genetics at St. John's Medical College, Bangalore from 25-6-90 to 31-7-90.

4. Publications :

Protective effect of propranolol on ethanol-induced gastric lesions in nice European Journal of Pharmacology 191, 167, 172 by Bhandare p., Diniz D'Souza R, Mainker A. v. & Dhume V. G. (1990)
Mucoipidermoid carcinoma of monor salivary gland Journal of pierre Fauchard Academy, r, 165, 167. By Mishra Y. C. Nadkarni N. S. & Mainker A. V. (1990)

5. Other details : Head of Department Anatomy was the chief Conductor for theory exams

(M. B. B. S. & B. D. S.)

B-2 Goa College of Pharmacy, Panaji-Goa.

The College was established in the year 1963. It imparts instruction in the subjects leading to B. Pharm. degree. Post graduate degree and diploma courses are also conducted by the College.

The institution is functioning in two buildings with extensive space for six class-rooms, offices, Library, etc. Although the College makes use of Govt. grounds for outdoor games, there are facilities for Volley-ball games in the college-compound. There are also hostel facilities provided to 87 boys and 36 girls.

Details of Teaching Staff :-

Principal : prof. J. Emmanuel, who is also Professor of Technology.

Teaching Strength:

| | |
|-----------------------|----|
| i) Professors | 2 |
| ii) Asstt. Professors | 3 |
| iii) Lecturers | 11 |

Non-Teaching staff:

| | |
|--|---|
| i) Sr. Laboratory Technician | 2 |
| ii) Technical Assistant | 4 |
| iii) Head Clerk | 1 |
| iv) Accountant | 1 |
| v) U. D. C. | 2 |
| vi) Stenographer | 1 |
| vii) Librarian | 1 |
| viii) Asstt. Librarian | 1 |
| ix) Store Keeper | 2 |
| x) Doc. Assistant | 2 |
| xi) L. D. C. | 6 |
| xii) Instructor of Physical Education. | 1 |

Library :-

Total number of text books/reference books/periodicals/academic journals in the Library.

Books 3912

Journals 36

Enrollment and Result

| Branch of study | Degree to be awarded | Total enrollment | | | Percentage of result of final year. | |
|-----------------|----------------------|------------------|-------|-------|-------------------------------------|---------------|
| | | Boys | Girls | Total | Mar. Apr. '90 | Mar./Apr. '91 |
| I Year | B.pharm | 10 | 17 | 27 | | |
| II Year | B.pharm | 23 | 16 | 39 | | |
| III Year | B.pharm | 09 | 16 | 25 | | |
| IV Year | B.pharm | 11 | 11 | 22 | 100% | 81% |

Principals Assessment of the performance of the college in the academic and Curricular and Non-Curricular fields.

The performance of the college in the academic and curricular field can be assessed from the results of the fourth B. pharm examination which was shown above. Out of 22 students, 8 have secured first class and 9 students have secured second class. The results of the third, second and first B. pharm is also good. In the sports, the students (Girls) have won championships in Badminton.

B-3 College of Engineering, Goa, Farmagudi-Goa.

The College was established in 1967. It is managed by the Government of Goa to impart instruction in the approved subjects leading to the degree of Bachelor of Engineering (B.E.) in Civil, Mechanical, Electrical, Electronics and Tele-Communications branches.

Facilities for all outdoor games are provided by the college. During the year 489 boys and 90 girls were provided with accommodation in the college hostels.

Teaching staff

Numbering of Teaching Staff

| Category | Pull-time | Part-time |
|------------------|------------------|------------------|
| <i>Permanent</i> | 14 | |
| Temporary | 31 | |

Details of Teaching Staff:-

Principal : Dr. G. K. Pacholi.

| | |
|-------------------------------|----|
| i) Principal | 1 |
| ii) Professor & Head of Dept. | 3 |
| iii) Professors | 3 |
| iv) Asstt. Professors | 15 |
| v) Lecturers | 21 |
| vi) Workshop Superintendent | 1 |

Details of Non-Teaching staff:-

| | |
|----------------------------|----|
| i) Store Officer | 1 |
| ii) Store Clerk | 1 |
| iii) Jr. Stenographers | 2 |
| iv) Deputy Registrar | 1 |
| v) Asstt. Accounts Officer | 1 |
| vi) Accountant | 1 |
| vii) Head Clerk | 1 |
| viii) Library Attendants | 2 |
| ix) UDCs | 5 |
| x) LDCs | 10 |

| | | |
|--|------------|----|
| xi) Draughtsman | 1 | |
| xii) Technical Asstt. | 8 | |
| xiii) Laboratory Asstt. | 27 | |
| xiv) Library Asstt. | 2 | |
| xv) Class IV staff | 53 | |
| xvi) Block Attdt. | 1 | |
| xvii) Boiler Machine Operator & Attdt. | 8 | |
| xviii) | Instructor | 10 |
| xix) Electrician | 2 | |

Visiting Teachers :

1. **Shri.** Anand Desai, Binnbol Post Collem, Goa 403 410
2. Miss Subhangi Nargarkar, Subash Stadium, Behind Housing Colony Ponda.
3. **Shri Do Mob Lino Rocque, Chinchinim, Salcete-Goa-403 715.**
4. Shri. P. N. Lotlikar, N-64 Nehru Nagar, Alto-Betim 403 521.
5. Mrs. Leena Yamanadalla- Super Market- Ponda-Goa. 403 711
6. Mrs. Shailaja S. Sardessai, Mo Porvorim, Bardez.
7. Shri Mathew Jose, Ambogal Colony, Ponda-Goa.
8. Shri Vincent Gracious Florl, Ruo De St. Joaquim Borda, **Marga**
9. Shri. Dr. K. S. Rane, Goa University.
10. Dr. M. S. Chandrasekar Rao. REC. Suratkal.
11. Prof. H. V. Dixit, P. E. S. College, Farmagudi, Goa.
12. Prof. S. H. Keleskar, P. E. S. College, Farmagudi, Goa.
13. Prof. Kundaikar, P. E. S. College, Farmagudi, Goa.
14. Prof. S. V. Kamat, Co-op Housing society, Campal Panaji.
15. S. V. Sitaram, Near Chowgule College Anand Nagar, Fatorda.
16. Seema Nambiar, 6 TTR, Ponda-Goa, 403 401.

Research Projects :-

Following undergraduate projects were taken **up under the guidance of the following faculty members.**

1. **Dr. R. T. Bhagwat**
 - (a) **Study and applications of solar cells.**
 - (b) Inventor for Tube light.
2. **Prof. V. K. Joseph**
 - Microprocessor based timer application for industrial alarm.**
3. **Prof. V. N. Shet**
 - (a) Computer aided design of basic electronic Circuits.
 - (b) Microprocessor based measurement of power factor & Frequency.
4. **Dr. K. J. Khatwani, professor and Head** of Electronics and Tele-communication Engineering is working on the research project of simplification of system. Contributed two papers.

Visitors to the Department :-

The Manager/Directors/Chairman of following Companies/Departments visited college in connection with placement.

1. Goa Telenatics, Ltd., Bethora.
2. **A. C. G. L. Honda.**
3. **G. A. A. L. Honda.**
4. **G. E. L. Mapusa.**

5. Goa Capicilor, Hollem.
6. M. R. F. Usgao.
7. Zuari Agro Chemicals Ltd., Zuari Nagar.
8. Indian Navy, New Delhi.
9. Indian Navy, New Delhi.
10. Indian Air Force.
11. Sanjivani Sugar Mill.
12. Mandovi Pellets, Shiroda.

Participation in Seminars, Conferences, workshops, etc :-

1. Shri. K. G. Bendre attended the following summer schools.
 - (a) On "Digital Communications" at Bengal Engg. College, Howrah, Calcutta from 1st June, 1990 to 18th June, 1990.
 - (b) On "Process Instrumentation" at Indian petrochemicals Ltd Naroda from 27th May, 1991 to 6th June, 1991.
2. Dr. R. L. Shanbag has attended an Industry Programme on 'productivity Management' at TISCO, Jamshedpur. This programme was held in June 1990 for a period of two weeks. He has also attended a Winter School on "Management of Engineering Education "at S. J. C. E. Mysore during Dec.'90.

Publications :-

- (i) K. J. Khatwani, "Simplification of system model in time communising continued fraction expansion in this cauer form, "Electronics letters, Vol, 27, No. 5, Feb. 1991 pp 396 -398.
- (ii) **K. J. Khatwani**, "Determination of aggregation matrices in case of moel reduction methods based on continued fractions," 14th National Conference, AMU, Aligarh, March, 1991.

Library :-

| | |
|----------------------------|--------|
| Total Number of Text Books | 26,921 |
| Reference Books | 3,000 |
| Periodicals | 24 |
| Academic Journals | 55 |

Sports :-

A full fledged Physical Training Instruction from the Sports Department of Goa, is provided which is in charge of the complete sports activities for this institution. Sports material for football, Volley-ball, Hockey, Cricket etc is available and is used by the students for playing.

Winners at inter-collegiate moments in swimming and Chess and also Runners up in Badminton, Table-Tennis. Mr. ashutesh Pednekar and Mr. Viriate Fernanded were selected for Goa University team to participate in inter-university tournaments, Mr. Antonio Bosco Dias was selected for inter-university team in Basket-ball game. Mr. Vivek Goankar was selected in Cricket team of Goa University to participate in inter-university tournaments.

Statistical Details regarding teaching and students :-

| Branch of study. | Degree to be awarded. | Duration of course. | | No. of students in 1990-91 (Sex-wise) | | |
|---|-----------------------|---------------------|-----------|---------------------------------------|--------------|-------|
| | | Boys | Girls | First year | Second year | |
| Civil, Mechanical, Electrical, Computer Electronic & Tele-Communications. | B. E. | 4 years | | Boys | 124 | |
| | | | | Girls | 25 | |
| | B. E. | | | | | |
| | S. E. | | | T. E. | B. E. | |
| | Boys | Girls | Boys | Girls | Boys | Girls |
| Computer | 25 | 07 | | | | - |
| ETC | 15 | 06 | 23 | 03 | 19 | 05 |
| Mechanical | 43 | | 42 | | 45 | - |
| Civil | 36 | 07 | 20 | 16 | 40 | 05 |
| Electrical | 20 | 01 | 15 | 04 | 15 | 08 |

Percentage-wise Result :-

May/June'90

| Courses | Students Registered | Students passed | Percentage |
|--------------------|---------------------|-----------------|------------|
| B. E. (Civil) | 56 | 53 | 94.64% |
| (Mechanical) | 36 | 34 | 94.44% |
| (Electrical) | 21 | 19 | 90.47% |
| (Electronics & TC) | 20 | 18 | 90.00% |

Nov/Dec'90

| | | | |
|--------------------|----|----|--------|
| (Civil) | 12 | 09 | 75.00% |
| (Mechanical) | 12 | 06 | 50.00% |
| (Electrical) | 26 | 22 | |
| (Electronics & TC) | 02 | | |

B-4 Nirmala Institute of Education, Altinho Panaji - Goa.

The Nirmala Institute of Education was established in June, 1963. The College is affiliated to Goa University and imparts instruction in courses leading to B. Ed and M. Ed. degrees.

The Institute is run by the Nirmala Education Society and is housed in the building owned by the society of the Daughters of the Heart of Mary. There are 4 lecture rooms and 5 tutorial rooms. In addition to sufficient space to carry out its administrative and other curricular activities is available.

Since most of the students are over 25 years of age, no outdoor games are conducted by the Institute. However, provision is made for indoor games. Hostel facilities are provided only for girl students.

Details of Teaching Staff

Principal : Dr. (Miss) Jennifer Fonseca, who is also a lecturer.

Teaching Staff

| Category | Full-time |
|--------------|-----------|
| Permanent | 9 |
| Probationary | 3 |

Designationwise :-

Principal

Lecturers

Details of Non-Teaching Staff

| | |
|-------------------|---|
| 1) Librarian | 1 |
| 2) Head Clerk | 1 |
| 3) Accountant | 1 |
| 4) Senior Clerk | 1 |
| 5) Junior Clerks | 2 |
| 6) Class IV staff | 6 |

Faculty Improvement Programme implemented by the College.

Dr. A. G. Bhalwankar gave a session to the faculty members on Evaluation of practice Teaching and Fr. Willie D'Silva gave a talk on Society and Language.

The following topics were dealt with by the faculty members.

| | |
|-----------------------|---|
| Miss B. Mendez | Communication and value Education. |
| Miss S. Veloso | Development of English Language Teaching. |
| Mrs. K. Borde | Methods of Teaching Marathi. |
| Mr. Gil Alberto | Trends in the teaching of Mathematics. |
| Mr. V. G. P. Lawande | Rammurthi Commission Report. |
| Dr. J. Fonseca | Approach and Method. |
| Mrs. R. Almeida | Population Education. |
| Dr. V. V. Chacko | Communications. |
| Dr. S. Prabhu | a method to manage children's misbehavior - rational Self analysis of Behaviour. |
| Mr. N. D'Souza | Interfaith Dialogue. |

Library:-

| | |
|-----------------------|------|
| i) Total No. of Books | 9776 |
| ii) periodicals | 29 |

Statistical details regarding teaching course and students

| Branch of study | Degree to be awarded | Duration of course. | No. of students in 1990-91 (Sex-wise) | | |
|-----------------|----------------------|---------------------|---------------------------------------|-------|-------|
| | | | Boys | Girls | Total |
| Education | B. Ed | one year | 20 | 78 | 98 |
| | | | Jr. | Sr. | |
| Education | M. Ed. | two years | | | |
| | | Boys | 4 | 3 | 7 |
| | | Girls | 4 | 1 | 5 |
| | | | Boys | Girls | |
| | M. Ed. | One year | 1 | | 1 |

Result of the college percentage-wise in respect of the final year.

| April | Appeared | Passed | Percentage |
|------------------|----------|--------|-------------|
| B. Ed. | 107 | 104 | 97% |
| M. Ed. | 3 | 3 | 100% |
| April '91 | | | |
| B. Ed. | 99 | 92 | 92% |
| M. Ed. | 6 | 6 | 100% |

Social Activities conducted in the service of the community by the college/management.**Social action Programme :-**

Various activities were arranged to acquaint the trainees with the social reality of Goa. Different groups of students visited Goa Medical College and enquired after the health of the patients, and expressed their solicitude and concern for them; organised sports for poor children, visited Matruchhaya, an orphanage for girls, the Home for the Aged, Panaji, Mother Tereza's Home, the Department of Human Behaviour and psychiatry, Panaji and Asha Mahal, Taleigaon, a Home for unwed mothers.

The students staged a dharna in order to draw the attention of society towards disrespect shown to women. They also demonstrated to press for the closure of the Free Market at Anjuna where drugs are sold openly, and participated in the agitation against the commercialization of carnival which led to the degradation of morality.

Mrs. Alice D'cruz gave a talk on Tourism and along with Mr. Sergio Carvalho who gave another talk on AIDS.

Dr. Sharad vaidya organised a programme at Nirmla Institute of Education to create an awareness that smoking is hazardous and could lead to cancer.

Co-Curricular Activities

At the start of the academic year, the B. Ed students were acquainted with the goals of the Institution.

Thereafter they drew up a list of expectations from the college authorities, the teaching and non-teaching staff and themselves. As a follow up, students and staff dialogued together on certain issue that arose in the college.

The college celebrated Independence Day, Ganesh Chaturthi, Teacher's Teacher's Day, Goa Liberation Day, Republic Day and International year of the Girl Child. There was also an Annual Sports Day And a Picnic to Dona Paula. The M. Ed students and staff relaxed at Tiracol Fort over a week-end.

A three day drama workshop was held for the B. Ed students to train them in the communication skills. The workshop was conducted by our ex-students, Sonya D'Souza and nyanesh Moghe.

Some members of the staff and students went on an educational tour to South India. The places visited were Bangalore, Trivandrum, Kanyakumari, Madurai, Pondicherry and Madras.

B-5 Goa College of Fine Arts, Altinho, Panaji - Goa.

This is a Government of Goa Institute established in June 1972 and imparts instruction on approved subjects leading to B.F.A. (Painting) and B.F.A. (Applied Art) degrees.

It functions in its own building having fifteen class-rooms. Outdoor sports activities are conducted on the Police playground which is adjacent to the college premises. For Hostel facilities there are 2 flats for boys and seats for girls are allocated in Government Polytechnic and Pharmacy college girls hostel.

Details of Teaching staff

| | |
|------------------|----|
| i) Principal | 1 |
| ii) Sr. Lecturer | 2 |
| iii) Lecturers | 16 |

Non-Teaching staff

| | |
|-------------------------|----------|
| i) A.A. Officer | 1 |
| ii) Reg. Cum-Head Clerk | 1 |
| iii) Accountant | 1 |
| iv) Librarian | 1 |
| v) A/c Clerk | 1 |
| vi) UDC | 1 |
| vii) Jr. Stenographer | 1 |
| viii) LDC | 2 |
| ix) Drivers | 2 |
| x) Class IV staff | 11 |

Library :

| | |
|-----------------------------------|------|
| I) Textbooks/reference books | 5918 |
| II) Periodicals/academic journals | 2371 |

Statistical details regarding Teaching Courses and students :

| Branch of study | Degree to be awarded. | Duration of course. | No. of students in 1990-91 (Sex-wise) | | | | | |
|-------------------------------------|----------------------------------|-------------------------|---------------------------------------|---------------|---------------|---------------|---------------|-------------|
| | | | 1st yr. 5a | 2nd yr. 5b | 3rd yr. 5c | 4th yr. 5d | 5th yr. 5e | Total 5f |
| 1 | 2 | 3 | 29 | 26 | 25 | 21 | 13 | 114 |
| Bachelor of Fine Art & Applied Art. | B.F.A. Painting/ Applied Art. | 5 yrs. Boys Girls | 11 | 14 | 09 | 16 | 12 | 62 |

Results of the College percentage-wise in respect of final year University examination in different subjects :-

| Course | March/April'90 | | Oct./Nov'90 | | % | March/April'90 | |
|----------------------|----------------|----------|-------------|--------|----|----------------|----------|
| | Appeared | Passed % | Appeared | Passed | | Appeared | Passed % |
| B.F.A. Painting | 09 | 06 66.6% | | | 12 | 11 91.6% | |
| B. F.A. Applied Art. | 30 | 30 100% | | | 22 | 22 100% | |

Principals' Assessment of the performance of the college in the Academic and Curricular and Non-Curricular fields.

Implimentation of academic programme as per Goa University syllabus. Encouraged students and staff for active participation in academic and curricular activities. Staff and students participated in various open Art exhibitions. The staff is invited to give lectures on Art at other co-educational institutions. The overall performance of the college is promising and growth oriented.

B-6 Mahadevrao Salgaocar College of Law

The College was established in June 1973 and since then it has been imparting instruction leading to the first degree in Law (LL. B) Besides this Diploma Classes of the Goa Institute of Management Studies are also conducted by the college.

The College is managed by the Devi Shreevani Education Society , Vasco Da Gama in its own two-storeyed building having 5 class-rooms. Grounds are taken on *hire* for indoor and outdoor games.

Details of Teaching staff

Principal:- Shri M. N. Samant

Teaching Staff :- Nine

| Category | Full-time | Part-time |
|-----------|-----------|-----------|
| Permanent | 4 | |
| Temporary | | 5 |

Details of Non-Teaching staff:-

| | |
|------------------|---|
| Superintendent | 1 |
| Accountant | 1 |
| Typist-Clerk | 1 |
| Steno | 1 |
| Class IV staff | 7 |
| Librarian | 1 |
| Asstt. Librarian | 1 |

Enrollment and Result

| Branch of study | Degree to be awarded | Duration of degree | No. of students in 1990-91 | | | | Total |
|-----------------|----------------------|--------------------|----------------------------|-----|-----|-----|-------|
| | | | Boys | 1st | 2nd | 3rd | |
| Law | L. L. B. | 3 years | 181 | 62 | 47 | 290 | |
| | | | Girls 60 | 26 | 14 | 100 | |

Percentage of Results:-

| | | |
|------------|-------------------|---------------------|
| LLB | April 1990 40% | October 1990 25% |
|------------|-------------------|---------------------|

Library :-

| | |
|----------------------------|------|
| Total Number of Text Books | 8780 |
| reference Books | 4022 |
| Periodicals | 2480 |
| Academic JOurnals - Legal | 32 |
| General | 19 |

B-7 Vidya Vikas Mandal's Govind Ramnath Kare College of Law, Ililargao - Goa

The College was established in June, 1979. It is run by Vidya Vikas Mandal and imparts instruction in the approved subjects leading to LL. B. degree.

The institution is run in a private building having four classrooms and other space for, library, office etc.

In the absence of its own playground, sports activities are held on the neighbouring grounds.

Details of Teaching staff

Offg. Principal : Arun S. Nadkami.

Total Teaching Strength: 8

| Category | Full-time | Part-time |
|--------------|-----------|-----------|
| Permanent | 1 | |
| probationary | | 4 |
| Temporary- | 1 | 2 |

Details of Non-Teaching staff

| | |
|----------------|---|
| Head Clerk | 1 |
| Librarian | 1 |
| Sr. Clerk | 1 |
| Jr. Clerk | 1 |
| Class IV staff | 5 |

Enrollment and Results

| Branch of study | No. of students admitted in 1990-91 (Sex-wise) | Percentage Results | |
|-----------------|--|--------------------|--------|
| | | Apr'90 | Oct'90 |
| F. Y. LL. B. | Boys 134 Girls 36 | 16.67% | 12.5% |
| S. Y. LL. B. | 26 8 | 42.11% | 35.00% |
| T. Y. LL. B. | 24 9 | 50.00% | 28.57% |

Library

| | |
|-----------------|------|
| Library Books | 3482 |
| Reference Books | 834 |
| Periodicals | 8 |
| Journals | 9 |

B-8 Goa Dental College & Hospital Bambolim.

The Goa Dental College & Hospital is run by the Government of Goa. It is established in June, 1989. Dr. K. P. Kamat, Dean from 01/07/90 to 20/04/91.

Accommodation (Class Rooms):

The College building belongs to the Government. It is owned by Goa Medical College, Government of Goa. It is exclusively used for the degree college.

Teaching Staff:

1. Number of teaching staff

Category

(i) Temporary:

| | |
|----------------------|---|
| i) Professors | 1 |
| ii) Astt. Professors | 2 |
| iii) Lecturers | 3 |
| Total | 6 |

(ii) Ad-hoc:

| | |
|-----------------------|----|
| i) Professors | 4 |
| ii) Asstt. Professors | 2 |
| iii) Lecturers | 5 |
| iv) Demonstrators | 1 |
| Total | 12 |

2. Details about Faculty Improvement Programme :-

Dr. Alka Kale, Reader & Incharge, Department of Oral Pathology and Dr. R. S. Nayak. assistant Professor, Department of Oral Pathology (both are from KLE's Dental College, Belgaum) were invited as visiting teachers. They conducted teaching programme in subject of Oral Pathology for the benefit of students of this institution.

Dr. R. K. Singh, Professor of Prosthetic Dentistry in this Institution was deputed to attend the 1st south Asian Dental Congress and 45th Indian Dental Conference and its pre-conference courses at Bombay.

The undersigned has also attended the National Conference of Indian Society of Periodontology which was held at Bombay.

3. Details of Teaching staff beginning with principal:

Dr. K. P. Kamat, Dean of the College is also a teacher in peridontia.

| Department | No. of teachers |
|-------------------------------------|-----------------|
| Prosthetic Dentistry | 3 |
| Oral Surgery | 1 |
| Orthodontia | 2 |
| Operative Dentistry | 3 |
| Radiology | 1 |
| Oral Medicine Diagnosis & Radiology | 1 |
| Peridontia | 2 |
| Oral Pathology | 1 |

4. Non-Teaching Staff:

The details of Library and other non-teaching staff as on date.

| Designation | Number of Staff |
|-------------------------|-----------------|
| Asstt. Accounts Officer | 1 |
| Office Superintendent | 1 |
| Assn. Librarian | 1 |
| Accountant | 1 |
| Staff Nurses | 7 |
| Jr. Engineers | 2 |
| U. D. C.'s | 3 |
| Jr. Stenographers | 1 |
| Store Keeper | 1 |
| Dental Technicians | 2 |
| X-ray Technician | 1 |
| Artist cum Photographer | 1 |
| L. D. C. 's | 9 |
| Jr. Library Assistant | 1 |
| Lab. Assistants | 5 |
| Assn. Electrician | 1 |
| Plumber | 1 |
| Mechanic | 1 |

| | |
|------------------------------|---|
| Drivers | 3 |
| Radiographer | 1 |
| Peons | 3 |
| Sweepers | 7 |
| Cleaners | 2 |
| Library Attendants | 2 |
| Watchman | 2 |
| Hyginest/Chairside Assistant | 2 |
| Sr. Resident | 1 |
| Jr. Resident | 1 |

5. Library:

| | |
|---------------------------------------|-----|
| Total number of text books in Library | 662 |
| Total number of Reference Books | 616 |
| Total number of Periodicals | 10 |
| Total number of Academic Journals | 68 |

6. N. C. C., Sports, Debates, Cultural Activities, N. S. S.,-Education and Extension work etc.

The Institution participated in inter-collegiate sports. On the cultural front, traditional fresher's welcome party was organised, Ganesh Festival was celebrated with pomp and gaiety. Various competitions held during Ganesh festival had good response from students community. Annual social gathering was held in Dinanath Mangrshkar Hall at Kala Academy, Campal Panaji.

7. Statistical details regarding teaching courses and students:

| Branch of study | Degree to be awarded | Duration of course | No. of students in 1990-91. | | | Final B. D. S. semester. | | |
|-----------------|----------------------|--------------------|-----------------------------|--------|---------|--------------------------|---|-------|
| | | | I Yr. | II Yr. | III Yr. | I | I | Total |
| Dentistry | B. D. S | 4 Yrs. | | | | | | |
| | | Male | 8 | 8 | 10 | 3 | 1 | 30 |
| | | Female | 11 | 21 | 16 | 11 | 1 | 60 |

8. Deans Assessment of the performance of the college in the curricular and non-curricular activities.

Performance in the academic field was very good and that in curricular and non-curricular activities **was** satisfactory.

9. Result of the college percentage-wise in respect of the final year University examination.

(Result of the examination of March-April'90 and Oct.-Nov.'90 and March - April'91.)

| | |
|----------------------------|-----|
| 1. March/April, 1990 | 93% |
| -2. October/November, 1990 | 16% |
| 3. March/April, 1991 | 92% |

B-9 Goa College of Architecture, Miramar Panaji-Goa.

This is Government College, which was established in June 1982, to impart instruction in the approved subjects leading to **B. Arch.** degree.

It functions in a private building. There are 4 Studies and 1 lecture room.

The open Ground at campal is being used for sports activities as the college does not have its own playground.

The hostel facilities are provided on share basis with the polytechnic and the Pharmacy wherein 18 students were provided with hostel accommodation, planning, Urban Design, Landscape, etc.

Details of teaching staff

Principal: Shri Bruno Dias Souza.

| | |
|--------------------------------|---|
| No. of teachers by designation | |
| Asstt. Professor | 2 |
| Lecturers | 5 |

Details of Non-teaching Staff

| | |
|-------------------------|---|
| Asstt. Accounts officer | 1 |
| Head clerk | 1 |
| Model Room asstt. | 1 |
| Jr. Stenographer | 1 |
| UDC | 1 |
| LDC's | 2 |
| Drivers , | 2 |
| Class IV staff | 4 |

Statistical details regarding Teaching courses and students

| Branch of study | Degree to be awarded | Duration of ' degree course | No. of students admitted in 1990-91 (Sex-Wise) | | | | | Total | 5-b | 5- |
|----------------------|----------------------|-----------------------------|--|---------|---------|---------|---------|-------|-----|----|
| | | | 1st Yr. | 2nd Yr. | 3rd Yr. | 4th Yr. | 5th Yr. | | | |
| Architecture B.Arch. | | 5 years | 5-a | | | | | | 5-b | 5- |
| | | | c | | | | | | 5-d | |
| | | | e | | | | | | 5-f | |
| | | | Boys | 5 | 5 | 6 | 13 | 7 | 34 | |
| Girls | 17 | 16 | 13 | 7 | 8 | 61 | | | | |
| Total | | | 22 | 21 | 19 | 20 | 15 | 95 | | |

N. C. C., Sports, Debates, Cultural Activities, N. S. S., Educational and Extensions works etc.:-

The students participates in sports such as football/Cricket, etc. and other Cultural activities conducted by other Colleges such as Creations, Happenings etc.

The Students Council has published a Magazine.

A team of 18 students participated in the National Association of students of Architecture Convention, 1990 at-Bombay.

B-10 Kala Academy College of Music, Panaji - Goa.

The Kala Academy College of Music at Campal was established in 1987 by Government. It is temporarily affiliated to the Goa University to impart instruction in the Indian Classical, Vocal and instrumental music leading to the degree in Bachelor of Music, which is a five year course of study.

Details - teaching staff :

Principal - Shri C. S. Naringrekar, Teaching Staff - two

| Category | Full-time | Part - time |
|--------------|-----------|-------------------|
| Permanent | 1 | |
| Probationary | 2 | |
| Temporary | | 5 (Lecture basis) |

Details of Non-Teaching Staff:

Non-Teaching staff

Three

Library :

There is no separate library for the college of music. All the relevant text books/reference books/periodicals/academic journals are provided to the college students by the Kala Academy Goa Library.

Enrollment:

During the year there were only 4 boys and 1 girl for the first year, 7 boys and 2 girls for the second year and 2 girls for the third year and 5 boys and 2 girls for the fourth year.

C-1 Xavier Centre of Historical Research

Alto Porvorim

- 1 Xavier Centre of Historical Research is an autonomous registered society with its aims and objectives of promoting research and publications in history, with special emphasis on the portuguese period church in India, and third world issues. The Xavier Centre had completed its first decade of activities on November 4, 1989.

The Goa Xavier Co. pvt. Ltd., that owns all the property of the society of Jesus in Goa has made available to the Xavier Centre of Historical Research the building and the surrounding plot. The land and the building are made available to the Xavier Centre of Historical Research on a rent-free and indefinite lease to carry out its objectives as defined in its Memorandum of ASSOCIATION. The chairman of the Goa Xavier Co. pvt. Ltd. is also the chairman of the Xavier Centre of Historical Research.

The Xavier Centre shifted to the new premises in January 1983 on the occasion of the 3rd international seminar on Indo-Portuguese history organised by it. The new premises have an office block with a courtyard. The ground floor has the offices (Institute office, Director's office, quad administrator's office), 2 conference rooms, one lounge, a computer-cum-micro film room and a reprography room. The upper floor holds the auditorium-cum-museum of the z Xavier Centre and the XCHR-Sussen Historical Research Library. Attached to the library is the Reading room and a Manuscript room.

Library:-

The library reference facilities continue to be made available without any fees. A PC-AT has been added to existing two PC-XT's. The computerization of the Library is in progress. CDS/ISIS supplied by CENDIT (New Delhi) is being implemented for this purpose. The xeroxing facilities and the microfilm reader are available to the scholar using the library and the microfilm facilities for a fee.

XCHR-Sussen Historical Research Library holds a total of about 13,500 books, 200 cyclostyled volumes of Government reports and of various history seminars, 45 volumes of xeroxed archival material, and 150 loose maps of historical and geographical value. The journal section of the library holds 395 titles.

The portuguese, French and English document of Mhamai House Papers numbering over 100,000 papers have been arranged chronologically into files.

The microfilm section has bout 8,500 documents on micro-film, and more are being added from time to time. These cover material from archives in India and abroad.

The mini-museum of the Xavier Centre was inaugurated in March 1986. It concentrated on the Goan Christianart, but also includes valuable collection of stamps, coins and medallions.

Attached to the office block and facing south is the residential block with living facilities for the resident Jesuit staff of the Xavier Centre, plus four rooms for the visiting scholars and other guests.

2. Academic Staff:

1. Director Dr. Teotonio **R.** de Souza. MA., Ph.D.
2. Library-in-charge & Administrator, Fr. Charles Borges, S. J., M. A. Ph. D. History

3. Library Assistant: Mr. Alex Pires.
4. Research Assistant: Mrs. L. M. D'Souza.

Non-Academic Staff:

- | | |
|---------------------|---|
| 1. Office Assistant | 1 |
| 2. Office Attendant | 1 |

3. Staff Activities: Director : Dr. T. R. de Souza.

1. Presented a paper on "Traditions of St. Thomas Christians in India" to the committee of local experts of the catholic Bishops Conference of India" (Latin Rite).
2. Went as resource person to help in a workshop on "Basic Christian Communities" in Hong Kong (1-3 June, 1990)
3. Lectured to M. A. students of Goa University (5-6 April '90)
4. Addressed a group of College boys and girls at St. Britto High school, Mapusa (29 April '90)
5. Conducted a course on church history to sister of the theological Institute of Mater Dei, Old Goa (02/10/1990)
6. Lectured on "Subaltern History" to the Academic staff College of Goa University (27-30 July, 18-23 Oct. 1990)
7. Inaugurated the Social *Sciences* Association of the Sanquelim Government College and spoke on "Democratisation in Eastern Europe (13th Sept. 1991)
8. Participated in a panel of speakers on "Goan Identity" at the Kala Academy on the occasion of the International Convention of Goan Youth (17 December 1990)
9. Chaired a session of a seminar on "South Africa and the World "organised by the Indian Association of African Studies in New Delhi (19-20 Feb. 1991)

4. - Administrator : Fr. Charles Borges

1. Participated in the 3rd Islamic Seminar on "Historical relations between the Arabian Gulf and the subcontinent of India" at Ras-al-kaimah, UAE in March 1990.
2. Attended a personality development course at Shembaganur during six months from May 1990.
3. Participated in a seminar of the Goa University and the Directorate of Archives in February 1991 on "Religious Traditions in Goa through the Ages" and presented a paper on "Christian Popular Religiosity in Goa in the 16th Century.

Asstt. Administrator : Fr. Cajetan Coelho

1. Is-doing research for Ph. D in History at the Pondichery University and also teaching Dutch language (Certificate Course) at the same University.
2. Attended to the administration of the Xavier Centre of Historical Research during the absence of Dr. Charles Borges from Goa during six months.

5. Projects :-

1. The Indian Council of Historical Research, New Delhi, granted two projects to the Centre; the translation of the works of Portuguese historian Joa Barros, and documentation and translation of the records of the Jesuits in India prior to their suppression in 1759. Three of the 4 volumes of Decades of Barros have already been translated by Mrs. L. M. D'Souza, the Research Assistant.
2. A volume of History of Church in Asia: A Third World perspective is being edited by Dr. de Souza.

It will be published by Burns & Oates Ltd. (London). The project is in its final stage of preparation and may be completed by the end of this year.

6. Portuguese Language Courses :-

These are held twice a year since 1981. Month long crash courses were held in May-June 1990 (14 students). October-November 1990 (9 students, January-April 1991 (6 students) at Basic I level , and from June (3 months) at Basic II level 9(5 students). Five students came from Cochin deputed by the Indo-Portuguese Cultural Society of Cochin and sponsored by the Calouste Gulbenkian Foundation of Lisbon.

7. Visitors:-

There have *been* regular visitors to the Xavier Centre seeking historical information. In addition to regular Ph. D. and M. A. students of the Goa University, nearly 150 scholars and others from India and abroad visited the research facilities of the Institute. Dr. Jose Pereira (Fordham University, USA), Michelle Fuerch (USA), Dr. Luis Filipe Thomaz (Portugal), Dr. Smiteck Imago (Yugoslavia), **Dr. Vivtor Manacas**, (Gulbenkain) Museum, Portugal) etc.

8. Consultancy Services :-

There have been request for information through correspondence. Ms. Susan enders (Chinese University of Hong Kong) sought views relating to macau; Mr. B. M. Gupta (New Delhi) asked for **an article on the** Xavier Centre Library and Manuscript; Prof Walter Weith (MOnash University Australia) sought information on missionaries in India, Michelle Guyard (Paris) was interested in documentation of western musical instrument in Goan History. Mr. Anthony Pinheiro (Cochin) went to help in tracing his family name in the 16th Century Portuguese records; Dr. P. V. Patil (Belgaum) asked for information on Sidhis of Janjira.

The Indian Council of Historical Research sent two thesis for expert opinion prior to approving them for publication grant.

The XCHR organised talks by Prof. Arthur Imhof (Free University of Berlin) on "Methods of Demographic History" (sept. 29, 1990); by Prof. Yunus carrim (University of Nata, South Africa) on ANC : From Politics of Resistance to Politics of Power. (March 4, 1991); and by Rocky V. Miranda (University of Minnesota) on "Everyday life in Goa around 1600 A. D. on the basis of the Vocabulario of Diogo Ribeiro" (March 30, 1991)

11. Publication of Centre (Articles and Books)

T. R. de Souza: Goa through the Ages, II: An economic History (Goa University Publications Series, No 6) , ed. Teotonio R. de Souza, New Delhi, 1990 (pp. 316)

"Traditions of St.Thomas in India: Some opinions". CCBI NEWS, Panjim, Vol. 1 nos. 1-3-30-32; nos. 3-4:63-68

"Mariano Saldhana", "P. S. Pissurlenkar", "Rogerio de Faria ", "Jose Nicolau de Fonseca", D. Matheus de Castro", and "gerson da Cunha", Goa's Hall of Fame, ed. Dr. Bailon de sa, Panjim, 1990.

"Shipping the Gospel", Marine Archeology, I. Jan. 1990, Dona Paula, NIO,PP. **45.51.**

"Jesuits in India". **Company, ed. E. J. Mattimoe**, vol. 7, n. 3, spring 1990. Chicago, pp. 8-9

The Portuguese Policy towards the Gulf of Hormuz ",
Al Watheekah, ed. Al Sayed Ahmed Hegazi, Baharain , Jan. 1991, pp. 197-216.

12. PH. D. Research :-

Five Scholars continue their Ph. D. research under the direction of Dr. T. R. de Souza. Two are nearing the completion.

C-2 Goa Institute of Management Studies

The Institute which was established in June 1977 is run by the Devi Shreevani Education Society, Vasco-da-Gama in the same building where Mahadevrao Salgaonkar College of Law is located. The Director S. M. Narasimha Raj is the only teaching member of Institute. The Library of the Institute has over 2,500 books.

Details of Teaching Staff:

| | |
|--|---|
| Management /HRM | 1 |
| Economics | 1 |
| Management/Personal Management | 1 |
| Financial MGT | 1 |
| Statistics | 1 |
| Operations MGT | 2 |
| Office MGT. CO. Law Secy Practice | 1 |
| Materials MGT. CO. Law & Secy Practice | 1 |
| Computer Data Processing | 1 |
| Accounting systems | 1 |
| Business Accounting | 1 |
| Costing | 1 |
| Business Law | 1 |
| Marketing | 1 |
| Production Management | 1 |
| Personal Management/Industrial Relations | 1 |

Non-Teaching Staff:

| | |
|--------------------|---|
| Cleric/Typists | 2 |
| Asstt. to Director | 1 |

Enrollment of students

| Course | Duration | No. of Students admitted in 1990-91. | | |
|----------|-----------------|--------------------------------------|--------|------------|
| | | Male | Female | Total |
| D. A. M. | 1 Yr. Part-time | 21 | 11 | Total : 33 |
| D. B. M. | 1Yr. Part-time | 26 | 2 | Total : 28 |

RESULTS:

May-June 1990

| | |
|----------|------------|
| D. A. M. | 30% passed |
| D. B. M. | 30% passed |

Dec./Jan. 1990:

| | |
|----------|------------|
| D. A. M. | 25% passed |
| D. B. M. | 5% passed |

May/June 1991

| | |
|----------|------------|
| D. A. M. | 20% passed |
| D. B. M. | 15% passed |

C-3 Vidya Vikas Mandal's Institute of Management Training And Research

The Institute which was established in June 1981 is run by the Vidya-Vikas Mandal. It was recognised by the Goa University for conducting post-graduate part-time one year courses in Management leading to D. B. M. and D.A.M. diplomas.

It is run in private building which has four class-rooms in addition to one room each for Directors office, College office, teachers common room and students common room etc.

As the institute runs part-time courses on Saturday and Sundays only it provides no other facilities like playground, hostels etc.

Teaching Staff:

| Category | Full-time | Part-time |
|------------------|-----------|-----------|
| On contract | 1 | 1 |
| On Lecture basis | | 9 |

Library

| | |
|-----------------|-----|
| Library books | |
| Reference books | 256 |
| Periodicals | |
| Journals | |

Details of Non-Teaching Staff

1. Shri. G. A. Kavlekar Contract basis
2. P. G. Kerker -do-
3. Shri. I. C. Dias -do-
4. Shri. K. B. Bahadur -do-

Details of Non-Teaching staff

| Department | Full-time | Part-time | Contract basis |
|--------------------|-----------|-----------|----------------|
| Management | | | |
| Commerce | | 1 | |
| Law | | | 1 |
| Economics | | | 1 |
| Accountancy | | | 1 |
| Maths & Statistics | | | 1 |
| Engineering | | | 1 |
| English | | | 1 |

Statistical details regarding Teaching Courses and students

| Branch of study | Degree to be awarded | Duration of diploma | Nos. of students in 1990-91 (Sex-wise) | |
|-----------------|----------------------|---------------------|--|-----------|
| Management | D. B. M. | One year | Boys-12 | Girls-2 |
| Management | D. A. M. | One year | Boys-10 | Girls-Nil |

Percentage Results

| | Registered | Appeared | Passed | Percentage |
|----------------|------------|----------|--------|------------|
| D. B. M. Sem.I | 9 | 9 | 3 | 33.33% |
| Sem.II | 13 | 9 | 1 | 11.11% |
| D. A. M. | NIL | NIL | NIL | NIL |

Final Results - December-January, 1990

| | | | | |
|----------------|-----|-----|-----|--------|
| D. B. M. Sem.I | 12 | 11 | 1 | 8.33% |
| Sem.II | 4 | 2 | 1 | 50.00% |
| D. A. M. Sem.I | 10 | 9 | 3 | 33.33% |
| Sem.II | NIL | NIL | NIL | NIL |

Final Results - May-June, 1991.

RESULTS NOT YET OUT.

C-5 Directorate of Archives, Archaeology & Museum, Panaji-Goa.

This is a Government institution, which was established in the year 1596 to cater to post-graduate instruction and teaching Ph. D. degree in History. Dr. P. P. Shirodkar who is the Director of the Institute is the only teaching member of institution. The Library of the Department consist round about 35,000 books.

Details of Teaching Staff:

| Category | Full-time | Part-time |
|-----------------|------------------|------------------|
| Permanent | one guide | |
| Probationary | | |
| Temporary | | |

Teaching Staff:-

| Name & Designation | Educational Qualification | Department |
|---|----------------------------------|-------------------|
| Dr. P. P. Shirodkar Director of Archives, Archeology & Museum. | M. A. Ph. D. | History |

A- GOA UNIVERSITY LIBRARY

The University Library came into existence with the establishment of the Goa University in June, 1985. In fact, the start was made by annexing the library of the Centre of Post Graduate Instruction and Research, University of Bombay to the Goa University Library, where by a collection of 37627 books and periodicals formed the basis of the present Library.

This section of the University is actually the central point of educational and research activities as it caters to the needs of various post-graduate students, research scholars and faculty members. To this effect, it is being replenished with newer and latest additions, year after year. Today, the total collection has reached to 58939 volumes of books, covering a number of disciplines under Humanities, science and Social Science covering wide range of subjects like Philosophy, Sociology, Politics, Economics, Education, Languages and Literature in English, Hindi, Marathi, Konkani, French and Portuguese, Mathematics, Computer Science, Physics, Chemistry, Geology, Marine Science, Microbiology, Management Studies, Arts, History and Biographies.

The Library has a separate journal section which subscribes 430 journals. Some journals are also received as gratis. Besides, the Library consists of thesis and several dissertations. More journals are being procured so as to strengthen the research activities of the University. In addition, the special needs of Historical Research are catered through Prof. P. S. S. Pissurlencar collection. Library which consists of 4486 books, journals, documents, photostat copies and microfilms. The Goa University has the following collection of books and journals which enrich the University's corpus.

- a) About 610 books from the heirs of Prof. Vithalrao Sukhthankar
- b) About 80 books in Portuguese from Dr. Shridhar Tamba
- c) A collection of about 467 books in Philosophy (of Prof. D'Andrade's collection) from the Bombay Philosophical Society, Bombay).
- d) About 519 books in Portuguese mainly concerned with Portuguese Literature of the 19th century from Advocate Paul Mascarenhas in the memory of his late father.
- e) About 146 - 149 books in French and Portuguese from Prof. G. V. Kantak.
- f) Collection of books / periodicals, pamphlets etc. 721 donated by Shri Carmo Azavedo on Goa and by Goan author.
- g) About 324 books mostly on Ayurveda from Dr. Raghuvir P. Sinari
- h) A collection of books numbering 1676 mostly Marathi from Shri Wamanrao Kundaikar
- i) A collection of books numbering 289 Portuguese from Shri Xavier De Monte Furtado
- j) A collection of 125 books mostly Portuguese from the Xavier Centre for Historical Research, Porvorim.
- k) A collection of 68 books and some periodicals mostly in Portuguese from Gulbenkian Foundation through Embassy of Portugal in India.

A collection of books mostly in Portuguese received from Mr. Nuno Gonsalves from Portugal has further enriched the library as far as study of Indo-Portuguese relations are concerned. There are 2944 books and journal in this collection. Computerised catalogue - subjectwise, titlewise and authorwise is ready.

Also the USIS Library, Alliance Francaise and British Council Library donate books regularly to the University Library. This includes 190 books especially in Latin american Studies in the USIS collection. They are in Spanish.

(II) Working Days:

The Library is kept open for all the days except Sunday, throughout the year, besides the normal working hours of the Library, the reading rooms are kept open for extended hours so as **to** facilitate its use by the readers. During the examination days, the Library is kept open even on Sundays and Public Holidays.

The normal timings of the Library are 9.00 a.m. to 6.30 p. m. on week days and 10.00 a. m. to 5.45 **p. m. on 1st, 3rd and 5th** Saturday of the month.

(III) Readers and use of Library:

The University has 800 registered readers including the staff members and several casual visitors. Inter Library exchange of books and journals is encouraged and the journals are regularly exchanged with the Library of National Institute of Oceanography.

Teachers and students of the local colleges are encouraged to use the University Library and the reference and borrowing facility is extended to them, Ph.D Students are issued ten books at a time, as a special facility to boost research activity in the University.

The Library continues to receive presentation of books/periodicals from a number of persons and institutions.

(IV) Other Materials:

Several maps are also collected by the Goa University Library.

Bibliographical and Documentation Service :

Bibliographies of reading materials available in the Library were compiled and supplied on demand to staff members on special subjects. A list with the latest addition is circulated to the University Departments. Recently, an exhaustive list of periodicals holdings of the Library has been published.

University Bindery:

Bindery unit has been opened to cater to the needs of day to day mending/binding of books and journals.

Classification and Cataloguing

Books are classified according to Dewey Decimal Classification and subject and author (Main) catalogues are maintained. There are separate catalogues for collection. Moreover the library collection (Books & Journals) is on computer now. Serious Readers/Research students can avail the facility of having a print out of the holdings of the library: authorwise, subjectwise etc.

B-Directorate of Students Welfare & Cultural Affairs

Director; Dr. T. D. Halarnakar

Directorate of Students Welfare & Cultural Affairs undertakes curricular, co-curricular and extra curricular activities of the students of Goa University and thereby help to build a total personality of the students community. This Directorate help to cultivate a sense of togetherness among the students. It also acts as a liaison body for smooth interaction between the students and University authorities.

In order to administer the students activities, the Goa University has constituted two students bodies viz.

- 1) Goa University Student Council, comprising the representatives of the colleges affiliated to Goa University.
- 2) Post-Graduate Student's Council representing the post-graduate students only.

Activities:

- 1) Organised a seminar on dowry system in collaboration of the anti dowry movement Bombay.
- 2) Organised a talk and slide show on Tobacco hazard by Dr. Sharad Vaidya, Hon. Secretary, Cancer Society, Goa on 27.11. 1990.
- 3) Students from North East frontiers States visited Goa University under SEIL Programme and discussed the students problems.
- 4) Miss Hazel Fernandes [M.Com](#). I student adjudged as best speaker in Inter Collegiate Elocution competition organised by M. E. S. College of Arts, & Commerce Zuarinagar in February 1991.
- 5) Goa University organised 'CROSSROADS' 91, a two day Inter Collegiate Youth Festival on 15th to 16th February 1991.
- 6) Prof. Amrit Islam Chowdhery, Director, Student's Welfare, Jahangir Nagar University, Bangladesh visited Goa University in February 1991.
- 7) **The P. G. Students of Goa University participated in 'Happening' 91 organised by Goa Engineering College Farmagudi; 'Panorama' 91 organised by Chowgule College, Margao; Creation, 91 organised by Dhempee College, Miramar, Volcano, 91 organised by Bandekar College, Mapusa.**
- 8) Post-Graduate Students Union organised inter faculty cultural, literary, Art and sports competitions for P. G. Students.
- 9) **P.G. Students organised "Guni Fest,91" on 30-3-91 accompanied by Prize Distribution and Musical Evening.**
- 10) **One Act Play entry of the P.G. Student's Union secured prize in stage setting in one Act Play competition organised by Kala Academy, Goa.**
- 11) **Shri. Vishant Manohar Govenkar and Kum. Shefa Prabhakar Vaidya represented Goa University in Inter University Elecution Competition organised by Anti Dowry Movement, Bombay.**

Dr. T. D. Halarnakar

- 1) Nominated as officiating Director of Sports, Goa University from Oct. 1990 to April 1991.
- 2) Invited as Chief Guest of prize distribution function at Inter Collegiate Cricket Tournament organised by Anti Dowry Movement.
- 3) Delivered talk on the teachings of Swami Vivekanand in G.V.M.'s College of Commerce and Economics in NSS week of the college on 12.2.91.

C-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. Encyclopaedia information will be classified into various subjects. The Encyclopaedia will contain entries relating to general knowledge but emphasis will be laid on information regarding the Konkani speaking region, its people, history, geography, art and culture, customs and manners, etc.

The Encyclopaedia will consist of about 3000 pages in three volumes around 1000 pages each. The source material will be based on information available in English, French, Portuguese, Hindi, Konkani, Marathi, Kannada, etc. and from specialised works. Original articles on local topics that have not been already dealt with in other works, will be written by scholars conversant with subject. Illustrations will be given wherever necessary.

The first volume, containing 1000 entries is already in press and the same is expected to be ready shortly.

This project will be first of its kind in Konkani and will go a long way in providing valuable information to Konkani readers.

1. Dr. M. L. Sardesai, M. A. D. Lit.
Chief Editor.
2. Dr. T. D. Halarnakar, M. A. Ph. D.
Executive Editor
3. Shri Shailendra N. Mehta,
Research Assistant.
4. Shri Mukesh P. Thali,
Research Assistant.
5. Kum. Kanchan Sheldenkar
Editorial Assistant.
6. Kum. Kalpana Kurtarkar
Editorial Assistant.

Administrative Staff

1. Kum. Pratima Naik

Participations in Seminars, Conferences, Workshop etc.

Dr. T. D. Halarnakar

Seminars

- 1) Presented paper in the seminar "Medium of Instructions at primary level and Konkani language" organised by the Konkani Kepemkar on 23/09/90.
- 2) Participated in the seminar on "Epics of India" organised by Sahitya academy New Delhi and Goa Konkani Academy on 05/12/1990.

Lectures

- 1) Delivered lecture in the workshop on poetry organised by P. E. S. College of Art:8, Science Farmagudi on 16/09/90.
- 2) Delivered lecture in the Valedictory function of official language orientation course for Govt. servants organised by the language cell, Govt. of Goa.
- 3) Delivered lecture on "Shenoi Goennbab and his works" on the centenary function organised by high school at Mandrem.

Other Details

- 1) Appointed as Convenor (third time) of Konkani Teachers Training course organised by Konkani Bhasha Mandel in July. 1990.
- 2) Invited as key Resource person for training the resource persons of the Konkani teachers training course organised by State Institute of Education Government of Goa.
- 3) Nominated as convenor of Publication Committee, Goa University.
- 4) Nominated as member of N. S. S. Advisory Committee, Goa University.

D-DIRECTORATE OF NATIONAL SERVICE SCHEME - 1990-91.

Aims & Objectives:- The overall objectives of the National Service Scheme, as envisaged originally, was extension of service to the community offered by the students while undergoing instruction in an educational institution. It was sought to create the social consciousness in the students and provide them with the opportunity to work with the people around the educational campuses creatively and constructively and to put the education they receive to concrete social use. It has *been* felt that the primary aim of the scheme is to enable the students to elevate their personality and *experience* through community service, Its end use is the improvement of personality while service to the community is a means through which such improvement is sought to be achieved. The objective of the scheme as restated, is therefore, development of the personality of students through community service. This objective is sought to be achieved for enabling the students to:-

- i) Understand the community in which they live.
- ii) Understand themselves in relation to their community
- iii) Identify the needs and problems in the community in the solution of which they are involved
- iv) Develop among themselves a sense of social and civil responsibility

- v) Apply their education in finding practical solutions to individual and community problems.
- vi) Develop competence required for group living and sharing responsibilities.
- vii) Gain skills in mobilising community participation.
- viii) Acquire leadership qualities and democratic attitude.
- xi) Develop capacity to meet emergencies and natural disasters and practice national integration.

The Motto

The motto or watch word of the N. S. S. is "NOT ME BUT YOU". This expresses the assense of democratic living and upholds the need for selfless service and appreciation of the other man's point of view and also to show consideration for fellow human beings. It underlines that the welfare of an individual is ultimately dependent on 'the welfare of society as a whole. Therefore, it should be the aim of the NSS to demonstrate this motto in its day-to-day programme.

With a view to keep the above objectives in mind, the Goa University has enrolled 3000 volunteers from different colleges in Goa for the regular activities and 1500 for Special camping Programme.

Regular activities undertaken during the year 1990-91 are as follows:-

- 1) 1) Hospital Project.
 - 2) Each one Teach one
 - 3) Fund collection
 - 4) Industrial survey
 - 5) Blood donation
 - 6) Coaching to Scheduled Caste and poor students.
 - 7) Construction of playground, Road, Cleaning, Levelling etc.
 - 8) Illiteracy survey
 - 9) Survey in Orphanage
 - 10) Archaeological Project
 - 11) Two volunteers participated in R. D. parade 1991 at New Delhi.
- 12) **M.P.F.L**
- 13) Organised Leadership training programme from 21st to 23rd Jan. 1991 at Youth Hostel, Panaji, total 32 NSS volunteers participated in the programme from various colleges in Goa.
- 2) Organised University level Central NSS camp from 26th Oct. to 4th Nov. 1990 at Morlem, Sattari, Goa.

Total 102 NSS volunteers participated in the camp:

Activities undertaken for central camp:

- | | |
|---|--------------------------------|
| 1) Levelling of playground. | 7) Nutrition camp |
| 2) Medical camp | 8) Agricultural demonstrations |
| 3) Meeting with local people | 9) Visit to Handloom Centre |
| 4) Cleaning the Lake | 10) Social survey |
| 5) Cleaning of water camp. | 11) Cultural Programme |
| 6) Visit to automobile Corporation at Honda | 12) Trekking to Morlem/Anjuna. |

3) **NSS Volunteers participated in the National Integration camp 90-91.**

| | Organizer | Date | Participated | | |
|-------|-------------------|-------------------------|--------------|--------|-------|
| | | | Male | Female | Total |
| 1) | Nagpur University | 20th to 25th Feb 90 | 5 | + 5 | . 10 |
| 2) | Delhi University | 17th to 25th Feb 90 | 5 | + 2 | , 7 |
| 3) | Utkal University | 24th Mar to 2nd Apr. 90 | 5 | + 4 | = 9 |
| 4) | Pune University | 27th May to 2nd Jun 90 | 6 | + 3 | = 9 |
| 5) | Orissa Uni. | 2nd to 11 Dec 1990 | 3 | + 4 | . 7 |
| 6) | M.G. University | 11th to 17th Jan, 1991 | 8 | + 4 | ,- 12 |
| 7) | S.S. Jain college | 16th to 22nd Jan. 1991 | 6 | + 4 | . 10 |
| 8) | H.P. University | 16th to 25th Feb. 1991 | 6 | + 4 | = 10 |
| Total | | | 44 | + 30 | = 74 |

- 4) 13 colleges successfully conducted the Special camps in their adopted village during October and December vacation.

E - DIRECTORATE OF SPORTS TALEIGAO PLATEAU

BRIEF REPORT OF THE DIRECTORATE OF SPORTS OF THE GOA UNIVERSITY FOR THE YEAR 1990-91.

The Directorate of Sports, Goa University, Taleigao Plateau, has gone a way ahead in the organisation of Inter Collegiate and Inter University Tournaments, Camps, Seminars, etc. since its inception.

Despite all odds faced by the Directorate of Sports, we have made a mark in Sports and Games and won many laurels for the University.

A brief resume of the activities implemented during the year 1990-91 is as follow;

I. PARTICIPATION IN INTER UNIVERSITY COMPETITIONS.

The Goa University participated in the following Inter University competitions and the performance in these games was indeed excellent.

FOOTBALL (MEN):

The Goa University team won the All India Inter University Football (Men) title held at Cuttak (Orissa). Prior to this they participated in the West Zone Inter University Football (Men) Tournament where they were declared runners up. The team was felicitated at a special function held in their honour, and cash prizes of Rs. 800/- each were distributed to the victorious team members including coach and manager.

FOOTBALL (WOMEN):

The Goa University Football Women team put up their best appearance in their maiden participation at the All India Inter University Football (W) organised by the Goa University at the Campal Stadium Panaji, **and fought** gallantly but went down to Manipur University securing the runners up position. The team was felicitated at a special function held in their honour, and cash prizes of Rs. 500/- each were awarded to **all** team members including the coach and manager.

BASKETBALL (MEN):

The Basketball Men team won the second place at the West Zone Inter University competition but failed to register a place at the All India Inter Zone Basketball (Men) Tournament.

VOLLEYBALL (WOMEN):

The Volleyball (Women) team won the third place at the West Zone Inter University Tournament in their Maiden appearance and qualified for the All India Inter Zone Tournament, where they lost.

BADMINTON (MEN):

The Badminton (*Men*) team lost at the West Zone Competition of Inter University Badminton (M) Tournament.

CRICKET: (MEN):

Our University lost in the second round of the west Zone Inter University Tournament.

II. ADVANCE SUMMER COACHING CAMP:

The IV Advance Summer Coaching Camp of the Directorate of Sports was held in the University premises from the 6th May to 23rd May, '91 and was residential in nature. The campers were accommodated *at* the Guest House.

The said camp was held in the following disciplines:

| DISCIPLINE | BOYS | GIRLS |
|-------------------------|-------------|--------------|
| Football (Men) | 23 | |
| Volleyball (Women) | | 11 |
| Athletics (Men & Women) | 12 | 4 |
| | 35 Boys | 15 Girls |

The camp was held in three sessions. Two sessions of practical training and one of theory. Lectures were delivered to the trainees in theory sessions by experts in various allied subject, such as Sports training Sports Psychology, Sports Medicine, etc.

Noted sports journalist like Avinash Nair from "Indian Express, Bombay and Kalayan Ashok of 'Sportstar and 'Hindu' also spoke to the trainees in regard to the role of self motivation in Sports and Games and its effect on top internationals of the Country.

Various Physical Fitness tests components such as speed, strength, agility, flexibility, endurance etc., were conducted on the first day and last day of the camp and these were statistically computed for knowing the actual level of improvement in the performance of the trainees and it was found that in most of the cases there was significant improvement in the level of Physical Fitness.

The Opening ceremony was held on the 6th of May at 3.00 p.m. at the hands of Mrs. Juliana Colaco, Asstt. Secretary, Sports Authority of Goa. While the closing ceremony was held on the 23rd of May, 1991, 5.00 p.m. with an exhibition football match at the hands of Dr. P.R. Dubhashi, Vice-Chancellor, Goa university, in the presence of Dr. S.K. Gandhe, Registrar, Goa University.

Special Mementoes and certificates were presented to the trainees at the hands of the Chief Guest.

III: ORGANISATION OF INTER COLLEGIATE TOURNAMENTS.

In the absence of a full time Director of Sports, the Inter Collegiate Tournaments were allotted to different colleges affiliated to the Goa University and a few of the games were organised by the Sports Department with the help of Directors of Physical Education of various Colleges, and officials from various Govt. Departments and Sports lovers who rendered valuable cooperation and help towards the overall conduct of sports and games.

| <u>SR.NO</u> | <u>EVENT</u> | <u>NAME OF ORGANISING COLLEGE</u> | <u>WINNER</u> | <u>RUNNER-UP</u> |
|--------------|----------------------------|-----------------------------------|-----------------|------------------|
| 1. | Table tennis (M) | Dhempe | Dhempe | Engineering |
| 2. | Table tennis (W) | -do- | Chowgule | Bandekar |
| 3. | Badminton (M) | -do- | Damodar | Engineering |
| 4. | Badminton (W) | -do- | Pharmacy | P. G. Centre |
| 5. | Basketball (M) | Dempo | Damodar | Cuncohim |
| 6. | Basket ball (W) | -do- | Damodar | Chowgule |
| 7. | Volleyball (M) | G. V. M. | Dempo | Damodar |
| 8. | Volleyball (W) | G. V. M. | Dempo | Chowgule |
| 9. | Kabaddi (M) | M. E. S. | G. V. M. | Bandekar |
| 10. | Kabaddi (W) | M. E. S. | Carmel | Cuncohim |
| 11. | Hockey (M) | Xaviers | Bandekar | Dempo |
| 12. | Hockey (W) | Xaviers | Xaviers | Damodar |
| 13. | Football (M) | Damodar | M. E. S. | Damodar |
| 14. | Football (W) | Damodar | Carmel | Xaviers |
| 15. | Tennikoit (W) | Carmel | Carmel | Damodar |
| 16. | Chess (M & W) | Pharmacy | Engineering | P. G. Centre |
| 17. | Cross Country (M) | Chowgule | Damodar | |
| 18. | Cross Country (W) | Chowgule | Xaviers | |
| 19. | Judo (M) | Damodar | P. E. S. | |

Tournaments organised by the Directorate of Sports.
Goa University.

| | Winners | Runners-up | |
|-----|--------------------|--|-----------|
| 20. | Kho Kho (M) | G. V. M. | Bandekar |
| 21. | Kho Kho (W) | Bandekar | Sanquelim |
| 22. | Cricket (M) | Damodar | Chowgule |
| 23. | Cricket (W) | Xaviers | Damodar |
| 24. | Best Physique (M) | M. S. Law | |
| 25. | Weight Lifting (M) | Bandekar | |
| 26. | Power Lifting (M) | Bandekar | |
| 27. | Swimming (M) | S. S. Dempo and Engineering (joint Winners) | |

IV 'THE VTH GOA UNIVERSITY ATHLETIC CHAMPIONSHIP

The V Goa University Annual Athletic Meet organised by the Directorate of Sports with the help of the Inter Collegiate organising committee appointed by the Goa University was held at Peddem, Mapusa, grounds on 5th, 6th, and 7th December, 1990.

250 athletes from 17 affiliated colleges participated **in various events and 8 new records were set.** Andrew Dias of St. Xaviers College and Shanniny **D' Silva of Chowgule College were declared Individual Champions** in the men's and Women category **respectively. Chowgule College annexed the Men** team championship while St. Xaviers College won **the women championship.**

V. ORGANISATION OF INTER UNIVERSITY FOOTBALL WOMEN TOURNAMENT.

The Goa University organised the All India Inter University Football (Women) Tournament w. e. f. 1st to 9th November , 90. The organisation of such an event drew large crowds at the Venue of the competition, i. e. Campal, Stadium, Panaji. In all 16 Universities confirmed their participation. However only eleven universities turned up due to railway strike and agitation in North India.

Manipur University, Guru Nanak Dev University, Punjab, and Goa University qualified for the final league. Manipur University lasses displayed superb ball control, speed, and accurate shooting power and enthralled the crowd at the finals of the All India Inter University Football (Women) Tournament Ws Goa University. Goa University, however, lost to Manipur in the finals by 2-0 and had to be content with the runners up position.

The Chief Guest for the Opening Ceremony was Shri. Churchill Aiemao, The then Sports Minister and our beloved Vice Chancellor, presided. At the Closing ceremony Smt. Shashikala Kakodkar, Education Minister was the Chief Guest, while Dr. S. K. Gandhe, Registrar, and Prof Jose James, A. I. U. Observer presided. All the participating Universities expressed their satisfaction at the organisation, food, accommodation provided to them during the competition.

VI. INSTITUTION OF TROPHIES:

We have as per orders placed with our Gwalior dealer received six new shields to be presented to the winners of various Inter Collegiate competitions. It is hoped that some more benefactors will come forward to donate sportingly.

As seen from the above, The Directorate of Sports have won laurels for the University by winning All India title and the West Zone Title, and has inscribed the name of Goa University in the Indian Map.

We look forward to the day **the Directorate will have its own full fledged stadium, various facilities, and sufficient funds so as to provide the very best to the Sportsmen/women who endeavour to bring glory and honour to Sports, to their University and their Country.**

ANNEXURE-I**Expenditure of Goa University**

Rs. in lakhs

| | Budget Estimates (1990-91) | | | Revised Estimates (1990-91) | | | Actual (1990-91) | | | Budget Estimates (1991-92) | | |
|----------|-------------------------------|------------------------|--------|--------------------------------|------------------------|--------|---------------------|------------------------|--------|-------------------------------|-------------------------|--------|
| | Recur- ring | Non- Recur- ring | Total | Recur- ring | Non- Rebu- rring | Total | Recur- ring | Non- Recur- ring | Total | Recur- ring | Non- Reccu- rring | Total |
| Plan | 45.00 | 390.00 | 435.00 | 44.37 | 415.65 | 460.02 | 15.93 | 322.19 | 338.12 | 83.03 | 357.50 | 440.53 |
| Non-Plan | 195.56 | 23.00 | 218.56 | 194.93 | 8.47 | 203.40 | 168.52 | 13.66 | 182.18 | 214.29 | 19.60 | 233.89 |

ANNEXURE -II

LIST OF THE MEMBERS OF THE EXECUTIVE COUNCIL

- | | | | |
|-----|---|---|------------------------|
| 1. | Vice-Chancellor | | Chairman |
| 2. | Dr. P. N. Srivastava Nuclear Science Centre, Jawaharlal Nehru University, P.O. Box 10502, New Delhi - 110 067. | | Member |
| 3. | Justice Dr. G. F. Couto La Campala, Miramar, Panaji-Goa. | | Member |
| 4. | Shri Shivanand V. Salgaocar Salgaocar House, Vasco-Da-Gama. | - | Member |
| 5. | Dr. G. J. S. Abraham E-4, Govt. Bungalow, altinho, Panaji-Goa. | | Member |
| 6. | Shri A. J. S. Sahney Secretary to Governor of Goa Rai Bhavan, Dona Paula, Goa. | - | Member |
| 7. | Dr. (Miss) Jennifer Fonseca Dean, Faculty of Education, Nirmala Institute of Education, Altinho, Panaji-Goa-403 001. | | Member |
| 8. | Shri M. N. Samant Dean, Faculty of Law, Mahadevrao Salgaoncar College of Law Miramar, Panaji-Goa. | - | Member |
| 9. | Dr. R. A. Sinari Prof. and Head of Dept. of Philosophy, Goa University, Bambolim, Goa - 403 005. | | Member |
| 10. | Shri V. R. Shirgurkar Principal, Smt. Parvatibai Chowgule College of Arts & Science, Margao-Goa-403 601. | | Member |
| 11. | Secretary(Finance), Govt. of Goa, Secretariat, Panaji-Goa. | - | Member (Ex-officio) |

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| 12. Secretary (Education) Govt. of Goa, Secretariat, Panaji-Goa. | Member |
| 13. Registrar | - MemberSecretary Goa University (Ex-officio) |
| 14. Dr. B. N. Desai, Director, National Institute of Oceano- graphy, Dona Paula, Goa. | Special invitee |

copy to : The Secretary
To Governor Visitor
for Goa University Raj Bhavan, Dona Paula, Goa.

ANNEXURE- III

LIST OF MEMBERS OF THE ACADEMIC COUNCIL AS RECONSTITUTED IN AUGUST, 1990

- | | |
|--|--------------------------|
| 1. The Vice-Chancellor, Goa University. | Chairman (EX-officio) |
| 2. Dean , Faculty of pure sciences | Member (Ex-officio) |
| 3. Dean , Faculty of Applied Sciences | Member (EX-officio) |
| 4. Dean , Faculty of Medicine | Member (Ex-officio) |
| 5. Dean , Faculty of Arts, Humanities & Social Sciences. | Member (Ex-officio) |
| 6., Dean, Faculty of Engineering & Architecture | Member (Ex-officio) |
| 7. Dean , Faculty of Law | Member (Ex-officio) |
| 8. Dean , Faculty of Fine and performing Art | Member (Ex-officio) |
| 9. Dean , faculty of Education | Member (Ex-officio) |

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|-----|---|---|------------------------|
| 10. | Dean, Faculty of Commerce & Business Administration | - | Member (Ex-officio) |
| 11. | Dr. L. S. Prabhumirashi Professor of Physical Chemistry, Goa University. | | Member |
| 12. | Dr. A. K. Pandey professor of Hindi, Goa University. | | Member |
| 13. | Dr. O. J. F. Gomes Professor of Konkani Goa University. | - | Member |
| 14. | Dr. R. A. Sinari professor of philosophy Goa University. | - | Member |
| 15. | Dr. (Kum) S. Mavinkurve professor of Microbiology Goa University. | | Member |
| 16. | Shri J. Emmanuel Principal, Goa College of Pharmacy, Panaji-Goa. | | Member |
| 17. | Shri G. V. Nadkarni, Principal, Dhempe College of Arts & Science, Miramar, Panaji-Goa. | | Member |
| 18. | Sr. M. Rossane, Principal, Carmel College for Women, Nuvem, Salcete-Goa. | - | Member |
| 19. | Shri A. G. Jumde, Principal, G. V. M's College of Commerce, Ponda-Goa. | - | Member |
| 20. | Fr. N. Pereira, Principal, St. Xavier's College, Mapusa - Goa, | | Member |
| 21. | Dr. A. R. Padoshi, Reader Dept. of Economics Goa University. | - | Member |

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|-----|---|---|-------------------------|
| 22. | Dr. (Kum.) Maria selma viera de Velho, Lecturer in Portuguese, Goa University. | | Member |
| 23. | Dr. Y. S. Prahalad, Reader in Mathematics, Goa University. | - | Member |
| 24. | Dr. G. N. Nayak, Lecturer in Marine Science, Goa University. | - | Member |
| 25. | Shri B. Ramesh, Lecturer in Commerce, Goa University. | | Member |
| 26. | Dr. Y. C. Mishra, Professor, Goa Dental College & Hospital, Bambolim. | | Member |
| 27. | Shri. G. K. Kelkar, Lecturer, Dhempe college of Arts & Science, Miramar, Panaji-Goa. | - | Member |
| 28. | Shri Umesh M. Bhende, Lecturer, G. V. M's College of Commerce, Ponda - Goa. | | Member |
| 29. | Shri Jacob Varkey, Lecturer, V. N. S. Bandekar College of Commerce, Assagao - Gao. | - | Member |
| 30. | Shri. G. M. Prabhudesai, Lecturer, Shree Damodar College of Commerce & Economics, Margao-Goa. | | Member |
| 31. | The Director National Institute of Oceanography, Dona Paula, Goa. | | Member (Ex. officio) |
| 32. | Dr. J. D. Sethi, Ex-Member, Planning commission, 39/18 East Patel Nagar, New Delhi - 110008. | - | Member |

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| 33. | Dr. P. N. Chopra Historian, C12, Kaveri Apartments, Alkananda, - New Delhi -110019. | - | Member |
| 34. | Dr. S. S. Johl Chairman, Agricultural Prices Commission, & Ex-Vice-Chancellor, 21-C, Gurudev Nagar, Ludhiana. | | Member |
| 35. | The Librarian, Goa University. | | Member (Ex-officio) |
| 36. | The Registrar Goa University | | Member Secretary (Ex-officio) |

ANNEXURE- IV

LIST OF MEMBERS OF THE COURT AS RECONSTITUTED IN SEPTEMBER 1990.

| | | | |
|----|---|--|--------------------------|
| 1. | Vice-Chancellor Goa University. | | Chairman (Ex-officio) |
| 2. | Dr. V. J. Monteiro Dean, Faculty of Medicine, Goa Medical College, Panaji-Goa. | | Member |
| 3. | Dr. A. H. Doctor Dean, Faculty of Arts, Humanities & Social Sciences, Goa University, Bambolim. | | Member |
| 4. | Prof. G.K..Pacholi Dean, Faculty of Engineering & Technology, College of Engineering, Goa, Farmagudi, Ponda-Goa. | | Member |

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|-----|---|---|--------|
| 5. | Dr. T.S.S. Rao Dean, Faculty of Applied Sciences Goa University, Bambolim. | - | Member |
| 6. | Dr. S. M. Bijli Dean, Faculty of Commerce & Business Administration, Goa University, Bambolim. | | Member |
| 7. | Dr. P. B. Wadar, professor of Marathi, Goa University, Bambolim. | | Member |
| 8. | Dr. B. S. Shastry professor of History, Goa University, Bambolim. | - | Member |
| 9. | Dr. V. N. Kamat Dalal professor of Inorganic Chemistry, Goa University, Bambolim. | | Member |
| 10. | Dr. M. A. Shahi professor of Economics, Goa University, Taleigao Plateau. | | Member |
| 11. | Dr. B. V. Nemade professor of English, Goa University, Bambolim. | | Member |
| 12. | Shri D. S. Bhende Principal, Dempo Charities Trust's Dempo College of Commerce & Economics, Altinho, Panaji-Goa. | - | Member |
| 13. | Dr. K. P. Kamat Dean, Goa Dental College & Hospital, Bambolim. | - | Member |

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| 14. | Shri M. S. Kamat Principal, Murgaon Education Society's College of Arts & Commerce, Zuarinagar. | | Member |
| 15. | Dr. A. K. Heblekar Principal, Ponda Education Society's College of Arts & Science, Farmagudi, Ponda-Goa. | - | Member |
| 16. | Dr. B. A. Games Principal, Govt. College of Arts, Science & Commerce, Sanquelim. | | Member |
| 17. | Shri B. Ramesh Lecturer in Commerce, Goa University, Taleigao Plateau. | | Member |
| 18. | Dr. Vijayendra padmanabh Kamat Lecturer in Chemistry, Goa University, Bambolim. | - | Member |
| 19. | Dr. Julio B. D. Fernandes, Lecturer in Chemistry, Goa University. | - | Member |
| 20. | Dr. G. N. Mishra Lecturer, Dhempo College of Arts & Science, Miramar, Panaji-Goa. | | Member |
| 21. | Shri Vaman Ramnath Naik Lecturer, S. S. Dempo College of Commerce & Economics, Altinho, Panaji-Goa. | | Member |
| 22. | Dr. Ramkrishna V. Tamba Goa College of Pharmacy, Panaji-Goa. | | Member |
| 23. | Shri Sabastian Marian Borges Lecturer, Smt. Parvatibai Chowgule Cultural Foundation's College of Arts & Science, Margao-Goa. | | Member |

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|-----|---|---|--------|
| 24. | Dr. A. M. Mesquita Goa Medical College, Panaji-Goa. | | Member |
| 25. | Shri Shankar Narayanan D. Poojari Lecturer, Murgaon Education society's College of Arts & Commerce, Zuarinagar,Goa. | | Member |
| 26. | Dr. Prakash Raghuvir Hede, Ponda Education Society College of Arts & Science, Farmagudi, Ponda-Goa. | - | Member |
| 27. | Shri G. R. Dukle Lecturer, St. Xavier's College of Arts & Science, Mapusa-Goa. | - | Member |
| 28. | The Manager Carmel Society's Carmel College for Women, Nuvem, Salcete, Goa. | - | Member |
| 29. | The Chairman Dynaprasarak Mandal V.N.S. Bandekar College of Commerce, Khorlim, Mapusa-Goa. | | Member |
| 30. | The Chairman, University Students' Council, Goa University, Bambolim, Goa. | | Member |
| 31. | Shri Rashpal Malhotra Director, Industrial & Rural Development Centre, Sector II A/722, Chandigarh. | - | Member |
| 32. | Dr. Bhagat Singh Ex-Vice-Chancellor, 134-A, punjabi Bagh, Patiala, Punjab. | | Member |
| 33. | Shri Hari jaisingh Editor, Indian Express Newspapers, (Bombay) Pvt. Ltd., Express Towers, Nariman Point, Bombay. | | Member |

| | | | |
|-----|--|---|----------------------------------|
| 34. | Smt. Kishori Amonkar Vibhav Apartments, Prabhadevi, Bombay-25. | | Member |
| 35. | Shri A.K. Wasnik, Chief officer, Margao Muncipal Council, Margao, Goa. | | Member |
| 36. | Shri Chandrakant Velip Labour Commissioner's Office, Junta House, Panaji-Goa. | | Member |
| 37. | Smt. M. Almeida Headmistress, Manovikas High School, Margao-Goa. | | Member |
| 38. | Smt. Anju Auduth Timblo C/o Hotel Cidade de Goa, Dona Paula, Goa. | - | Member |
| 39. | Smt. N. Y. Kapdi Finance Officer, Goa University, Taleigao Plateau. | - | Member |
| 40. | Registrar Goa University Bambolim, Goa. | | Member Secretary (Ex-officio) |

ANNEXURE - V

LIST OF MEMBERS OF PLANNING BOARD

| | | |
|----|--|--------------------------|
| 1. | Vice Chancellor Goa University | Chairman (Ex-officio) |
| 2. | Prof. M. S. Adwani Vice Chancellor Jawaharlal Nehru University New Mehrauli Road, New Delhi. | Member |
| 3. | Dr. S. G. Deo Dean, Faculty of pure sciences, Goa University. | Member |

- | | | |
|----|--|----------------------------------|
| 4. | Dr. V. A. Pal Panandikar Director, Centre for policy Research, Dharma Marg, Chanakya Puri New Delhi -110021. o r Dr. V. A. Pal Panandikar CIO Atmaram X Pai Panandikar Near Marpol House, or Fatima Convent, Margao-Goa. | - Member |
| 5. | Prof. R. P. Bambah, Vice-Chancellor Punjab University, Chandigarh - 160 014. | - Member |
| 6. | Registrar Goa University | Member Secretary (Ex-officio) |

ANNEXURE -VI

LIST OF MEMBERS OF FINANCE COMMITTEE

- | | | |
|----|--|--------------------------|
| 1. | Vice-Chancellor Goa university. | Chairman (Ex-officio) |
| 2. | Registrar Goa University. | Member (Ex-officio) |
| 3. | Secretary (Education), Govt. of Goa, | Member (Ex-officio) |
| 4. | Secretary (Finance) Govt. of Goa, Secretariat, Panaji, Goa. | Member (Ex-officio) |
| 5. | Dr. G. J. S. Abraham, (Member of E. C.) | Member |
| 6. | Dean of Faculty of Commerce, and Business Administration, Goa University. | - Member (Ex-officio) |
| 7. | Shri A. J. S. Sahney', Secretary to Governor & Visitor Goa University, Dona Paula, Goa. | - Member |

The Finance Officer of the University is-the ex-officio Secretary of the Finance Committee

ANNEXURE .VII

LIST OF THE DEANS OF FACULTIES OF THE UNIVERSITY

1. Dr. S. G. Deo
M.sc., Ph.D. Pure Sciences
2. Dr. V. J. Monteiro
MBBS, MD, MS, DIPLOMAS - Medicine
3. Shri. M. N. Samant
B. A., LL. M. Law
4. Dr. A. H. Doctor
M. A., Ph. D. - Arts, Humanities & Social sciences
5. Shri M. G. Joshi
G. D. Art. - Fine Art
6. Prof G. K. Pancholi
BE, Dr. Tech, FIE(INDIA) - Architecture & Engineering Te _{k)} 1067 •
7. Dr. T. S. S. Rao
M. Sc., D. Sc. - Applied Science
8. Dr. (Miss) Jennifer Fonseca
M. A., M. Ed., Ph. D. Education.
9. Dr. S. M. Bijli
M. A., M. Corn, Ph. D. - Commerce & Management Studies

ANNEXURE-VM

LIST OF OFFICERS OF THE GOA UNIVERSITY

1. Visitor His excellency, Khurshid Nam Khan
Governor of Goa.
(From 18-7-1989 to 17-3-1991)
2. Vice-Chancellor Dr. B. Sheik Ali (upto 30/10/1990)
M. A. (Alig), Ph. D. (Alig & London)
Dr. P. R. Dubhashi
(From 30/10/90) M. A., Ph. D., D. Litt
3. Registrar Dr. S. K. Gandhe
B. Corn, M. A., M. Sc., Ph.D.
4. Finance Officer Smt. N. Y. Kapdi
B. Sc, LL. B.

| | | |
|-----|---------------------------|--|
| 5. | Controller of Examination | Shri G. V. Jagdale (Upto 4/4/91) M. A. |
| 6. | Deputy Registrar (Acad) | Shri G. D. Dangi B. A., B. Corn. |
| 7. | Deputy Registrar (GA) | Shri D. P. Pendnekar (From 16/11/90) M. A. |
| 8. | Deputy Registrar (Exams) | Shri U. S. Parab (From 31/08/90) M. Com. , B. Ed. |
| 9. | Deputy Librarian | Shri V. R. Navelkar M. A., M. Lib, Sc. |
| 10. | Systems Analyst | Shri D. P. Nayak M.Sc. |
| 11. | Executive Editor | Dr. T. D. Halarnkar M. A., Ph. D. |
| 12. | Assn. Registrar(Legal) | Shri U. V. K. Shankhwalkar B. A., LL. B. |
| 13. | Asstt.Registrar | ShriC. J. R.Diniz (Upto 31/03/91) B. A. |
| 14. | Asstt.Registrar (Exams) | Shri A. G. Khanolkar |
| 15. | Asstt. Registrar | Shri V. J. Kamat B. Corn. |
| 16. | Asstt.Registrar | Shri M. A. Vaidya B. A |
| 17. | AsstRegistrar | Shri G. J. S. Talaulikar B. Corn. |
| 18. | Asstt.Reg istrar | ShriS. K.Manjrekar (From 16/08/90 to 11/08/91) |
| 19. | Asstt.Registrar(Finance) | ShriG. D. Nasnodkar (from 28/01/91) B. A. |

LIST OF AFFILIATED COLLEGES AND RECOGNIZED INSTITUTIONS IN GOA.

I. College other than Professional.

- 1.1 **Dhempe** College of Arts & Science Miramar, Panaji Goa 403 001.
- 1.2 Smt. Parvatibai Chowgule Cultural Foundation's College of Arts & Science, Margao-Goa 403 601.
- 1.3 St. Xavier's College of Arts & Science, Mapusa Goa 403 525
- 1.4 Srinivasa Sinai Dempo College of Commerce & Economics Altinho, Panaji-Goa 403 001
- 1.5 Carmel College for Women, Nuvem, Salcete-Goa 403 601.
- 1.6 Murgaon Education Society's College of Arts & Commerce, Zuarinagar.
- 1.7 Shree Damodar College of Commerce & Economics, Margao Goa 403 601.
- 1.8 V.N.S. Bandekar College of Commerce, Khorlim, Mapusa Goa 403 529.
- 1.9 Goa Vidyaprasarak Mandal's College of Commerce & Economics, Ponda Goa 403 405.
- .10 Fonda Education Society's College of Arts & Science, Farmagudi Ponda-Goa 403 405.
- .11 Naval Academy, INS Mandovi Verem Goa 403 109.
- .12 Cuncolim Education Society's College of Arts & Commerce Cuncolim, Salcete Goa.
- .13 Govt. College of Arts Science & Commerce Sanquelim Goa
- .14 Goa College of Home Science, Bambolim Goa
- .15 Govt. College of Arts & Commerce, Khandola, Marcela, Goa
- .16 Govt. College of Arts & Commerce Quepem, Salcete, Goa
- .17 Rosary college of Commerce, Navelim, Salcete, Goa.

II Professional Colleges.

- 2.1 Goa Medical College Panaji, Goa 403 001
- 2.2 Goa College of Pharmacy Panaji Goa 403 001
- 2.3 College of Engineering, Goa Farmagudi Fonda Goa 403 405
- 2.4 Nirmala Institute of Education altinho, Panaji - Goa 403 001.
- 2.5 Goa College of Fine Art Altinho, Panaji - Goa - 403 001
- 2.6 Mahadeorao Salgaonkar College of Law, Miramar Panaji Goa 403 001.
- 2.7 Govind Ramnath Kare College of Law, Borda Margao Goa 403 601.
- 2.8 Goa Dental College & Hospital Bambolim Goa 403 005.
- 2.9 College of Architecture Savitri Niwas' Miramar Panaji Goa 403 001.
- 2.10 Kala Academy's Goa College of Music, Panaji Goa. 403 001

III. RECOGNISED INSTITUTIONS

- 3.1 Xavier Centre of Historical Research Porvorim Bardez-Goa.
- 3.2 Goa Institute of Management Studies Miramar Panaji-Goa
- 3.3 Institute of Management Training & Research, St. Joaquim Road, Margao-Goa.
- 3.4 National Institute of Oceanography, Dona Paula, Goa 403 004.
- 3.5 Directorate of Archives Government of Goa Panaji-Goa 403 001.

