

XV ANNUAL REPORT

1999-2000

MARCH 2001



GOA UNIVERSITY

TALEIGAO PLATEAU

GOA 403206

GOA UNIVERSITY

VISITOR/CHANCELLOR
H.E. GOVERNOR OF GOA

VICE-CHANCELLOR
PROF. B.S. SONDE

REGISTRAR
PROF. D. V. BORKAR

DEANS OF FACULTIES
Languages and Literature
PROF. O.3.F. GOMES

Social Sciences
PROF. M.A. SHAHI (up to 30.11.1999)
PROF. V. SHIVKU MAR (From 1.12.1999)

Natural Sciences
PROF. A.G. DESSAI

Life Science and Environment
PROF. U.M.X. SANGODKAR

Management Studies
PROF. A. SREEKUMAR

Medicine
PROF B.N. REDDY

Engineering & Architecture
PROF. CHO PADAMSEE

P R E F A C E

It gives me great pleasure in presenting the Fifteenth Report of Goa University for the academic year 1999-2000. The report is presented in six parts, Part 1 — Authorities of the University, Part 2 — P.G. Departments/Centres on the University Campus, Part 3 — General Administration, Part 4 — Affiliated Colleges, professional and General, Part 5 — Recognized Institutions and Part 6 — Financial Statement.

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

Goa University has completed fifteen years since its establishment on 1st June, 1985. It is an affiliating-cum-teaching University having facilities for higher and research in a number of disciplines. There are now 22 Teaching Departments, 4 U.G.C. Centres, U. G. C. Academic Staff College for in-service-training of teachers, 43 affiliated colleges (professional & non-professional) and 6 recognized institutions conducting research.

The bygone year has been another important year in the consolidation and build up of the academic and research activities at the University. Some new academic programmes were launched in this year like Master of Financial Services, and P.G. Diploma in Clinical Genetics & Medical Laboratory Techniques. Besides, a Centre for Human Resource Development, U.G.C. Centre for Konkani Development Studies, Remote Sensing Laboratory, Virtual Institute for Training, Convex Unigoa — A Goa University Initiative` and VLSI Design & Education Programme were set up during the year. Also, MoU was signed with Bhabha Atomic Research Centre, Trombay for academic/research cooperation. One of the major tasks undertaken at the University during the year was the conduct of a comprehensive academic review of PG departments, for the first time. The results of the review now form the basis for future development of an academic/research work.

I express my sincere gratitude to H.E. Governor of Goa and Chancellor, Goa University for the keen interest he has shown in the functioning of the University. I am extremely thankful to the State Government for all the continued support to strengthen the University. I also thank the University Grants Commission and the Planning Commission for the IX Plan Grants allocated to the University. I also place on record my sincere thanks to the members of the Executive Council, Academic Council, Court, Planning Board and other Bodies of the University for their understanding and cooperation. My grateful thanks are also due to all the teaching and non-teaching staff members and students of the University for making 1999-2000 yet another successful year.

Taleigao Plateau.
March, 2001

PROFESSOR B.S. SONDE
VICE-CHANCELLOR

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EDITORIAL COMMITTEE: S. M. Tadkodkar (*Convenor*), M. K. Janarthanam, *Member* Nandakumar Mekoth, *Member* K. R. Priolkar, *Member*, U.V.K.Shankhwalkar, Aquaviva Vaz, Nora M. Naik.

PART 1: UNIVERSITY AUTHORITIES AND BODIES.

1.1 LIST OF THE MEMBERS OF THE UNIVERSITY COURT

VICE-CHANCELLOR, *Chairman (Ex-officio)*

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

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

CHO PADAMSEE, Dean, Faculty of Engineering & Architecture, C/o. Goa College of Architecture, *Member*

U.M.X. SANGODKAR, Dean, Faculty of Life Science & Environment, Goa University, *Member*

O.J.F. GOMES, Dean, Faculty of Languages and Literature, Goa University, *Member*

S. D. KOMARPANT, Professor, Department of Marathi, Goa University, *Member*

PETER R. D'SOUZA, Professor, Department of Political Science, Goa University, *Member*

NARAYAN JAYARAM, Professor & Head, Department of Sociology, Goa University, *Member*

V. N. KAMAT DALAL, Professor Department of Chemistry, Goa University, *Member*

A. V. AFONSO, Professor, Department of Philosophy, Goa University, *Member*

R. K. SINGE, Dean, Goa Dental College & Hospital, Bambolim, *Member*

JENNIFER J. FONSECA, Principal, Nirmla Institute of Education, Panaji *Member*

G. G. KONDLI, Vice-Principal, Shree Damodar College of Commerce & Economics, Margao, *Member*

A. K. HEBLEKAR, Principal, Ponda Edn. Society's College of Arts & Science, Farmagudi, *Member*

NVS RAJA, Commander, Naval Academy, INS Mondovi, Veer, GAO, *Member*

PARATHION BHUTAN RAO, Lecturer, GAO College of Home Science, Carpal, Panaji Goa, *Member*

RANJU SURESH KUNKOLIKAR, Lecturer, Goa College of Home Science, Campal, Panaji Goa, *Member*

S. R. GANIHAR, Lecturer, Dhempe College of Arts & Science, Panaji, *Member*

ANAND S. SANGORAM, Lect., S. S. Dempo College of Commerce & Economics, Panaji, *Member*

BASAVRAJ S. INGALHALLI, Lect., M.E. S. College of Arts & Commerce, Zuarinagar, *Member*

PRAKASH RAGHUV IR HEDE, Lecturer, Ponda Education Society's College of Arts & Science, Farmagudi Goa, *Member*

K. G. SANKARANARAYAN, Lect., Zantye Brothers Education Foundation's Narayan Zantye College of Commerce, Bicholim, *Member*

CHANDRALEKHA D' SOUZA, Lecturer, Department of Konkani, Goa University, *Member*

PREMANAND S. RAIKAR, Reader, Department of Geology, Goa University, *Member*

A. J. JAYANTHAN, Lecturer, Department of Mathematics, Goa University, *Member*

JOYDEEP DWIJENDRALAL BHATTARCHARJEE, Lecturer, Govt. College of Arts, Science, & Commerce, Sanquelim, Goa, *Member*

CHAIRMAN, Diocesan Education Society, Bishop's House, Altinho, Panaji, *Member*

CHAIRMAN, Murgao Education Society, C/o. M.E.S. College of Arts & Commerce, Zuarinagar, *Member*

CHAIRMAN, University Students' Council, c/o. Directorate of Students Welfare, Arts Faculty Block, Goa University, *Member*

JUSTICE EURICO D'SILVA, Borda, Margao, *Member*

REAR ADMIRAL B.R. MENON (Retd.), Chairman, Goa Shipyard Ltd, Vasco, *Member*

ALBAN COUTO, Advisor to Governor of Goa, Panaji, *Member*

MARIO MIRANDA, Loutolim, Salcette, *Member*

SHAMBU BHAI BANDEKAR, Ex-Dy. Speaker, H.No. 4/15-A, Tabrawado, P.O. Saligao, *Member*

ADVT. BABUSO GAONKAR, Porvorim, *Member*

PRAMOD D. SALGAONKAR, Dattawadi, Mapusa, Goa, *Member*

NIRMALA SAWANT, Marcela, Goa, *Member*

A.G. KHANOLKAR, Assistant Registrar (till 30.9.1999), Goa University, *Member*

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

The Fourth Annual meeting of the Fourth Court was held on 24.03.2000

1.2 LIST OF MEMBERS OF THE ACADEMIC COUNCIL:

VICE-CHANCELLOR, Goa University, *Chairman (Ex-Officio)*

B.N. REDDY, Dean, Faculty of Medicine, *Member*

CHO PADAMSEE, Dean, Faculty of Engineering & Architecture, *Member*

A. G. DESSAI, Dean, Faculty of Natural Sciences, *Member*

O.J.F. COMES, Dean, Faculty of Languages & Literature, *Member*

M. A. SHAH (Until 30.11.1999), V. M. SHIVKUMAR (From 1.12.1999), Dean, Faculty of Social Sciences, *Member*

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

KIRAN J. BUDKULEY, Reader, Department of English, Goa University, *Member*

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

IRENE FURTADO, Lecturer, Department of Microbiology, Goa University, *Member*

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

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

DEAN, Faculty of Performing Fine Art & Music, *Member*
 U.M: X. SANGODKAR, Dean, Faculty of Life Sciences & Environment, *Member*
 A. SREEKUMAR, Dean, Faculty of Management Studies, *Member*
 DEAN, Faculty of Law, *Member*
 DEAN, Faculty of Commerce, *Member*
 V. SHIVKUMAR, Professor & Head, CLAS, Goa University, *Member*
 D. J. BHAT, Professor & Head, Department of Botany, Goa University, *Member*
 P. R. SARODE, Professor & Head, Department of Physics, Goa University, *Member*
 S. D. KOMARPANT, Professor & Head, Dept. Marathi, Goa University, *Member*
 S. MAVINKURVE, Professor & Head, Department of Microbiology, *Member*
 S. L. SARDESSAI, Principal, S. S. Dempo College of Commerce & Economics, Panaji *Member*
 I. P. NEWMAN FERNANDES, Principal, Rosary College of Commerce & Arts, Navelim, *Member*
 DATTARAM V. NAVELKAR, Principal, Goa College of Fine Art, Altinho, Panaji, Goa, *Member*
 Louis J. VERNAL, Principal, G. V. M.'s College of Education, Ponda Goa, *Member*
 DATTA BHIKARO NA IK, Lecturer, S. S. Dempo College of Commerce & Economics, Altinho, Panaji, Goa, *Member*
 SANDEEP S. BURYE, Lecturer, Dhempe College, Miramar, Panaji, Goa, *Member*
 SAVIO DA P. FALLEIRO, Lecturer, Rosary College of Commerce & Arts, Navelim, *Member*
 PRABHULING G. DANDIN, Lect., G. V. M.'s College of Commerce & Economics, Ponda, *Member*
 MARION D'Souza, Lecturer, St.Xavier's College, Mapusa aoa, *Member*
 E.DEsA, Director, National Institute of Oceanography, Dona Paula, Goa, *Member*
 SUMA CHITNIS, Director, J. N. Tata Endowment Bombay House — 24, Homi Modi Street, Mumbai 400 001.
 K. J. MAHALE, Former Vice-Chancellor, Manipur University, Deluxe Apartment — A S/2 Tonca, Caranzalem Goa.
 P. P. SHIRODKAR, Director of Archives, Govt. of Goa, Panaji Goa.
 THE DEPUTY LIBRARIAN, Goa University, *Member*
 THE REGISTRAR, Goa University, *Member-Secretary (Ex-Officio)*

During the year 1999-2000, the Academic Council met three times and has taken the following important decisions.

1. The Department of Geology was renamed as Department of Earth Science.
2. Created 20% additional Supernumerary seats at the University Post-graduate departments for foreign students from the coming academic year.
3. From the next academic year the F.Y. Examination for Engineering will be conducted by the respective colleges on behalf of the University.
4. Goa University has entered into academic/research cooperation with the University of Aveiro, Portugal and the students and teachers of both the Universities have already started participating in the exchange programme.
5. New academic programmes were approved for being launched, viz., M.Sc. in Energy Studies, M.A. in International Studies, M. Library & Information Science, Integrated Ph.D. in Atmospheric — Ocean Dynamics.
6. Revision of Ordinances related to M.A., M.Sc., and [M.Com.](#) Course programmes.

1.3 LIST OF MEMBERS OF THE EXECUTIVE COUNCIL.

VICE-CHANCELLOR, Goa University, *Chairman (Ex-Officio)*
 GEN. S.F. RODRIGUES (Retd.), Director, Goa International Centre, Goa, *Member*
 E.DESA, Director, National Institute of Oceanography, Goa, *Member*
 SECRETARY TO GOVERNOR & Visitor of Goa University, Raj Bhavan, Goa, *Member*
 RANJANA SALGAONKAR, Salgaonkar House, Vasco-Da-Gama, Goa, *Member*
 FR. ROMUALDO D' SOUZA, Director, Goa Institute of Management, Goa., *Member*
 A. G. DESSAL Dean, Faculty of Natural Sciences, Goa University, *Member*
 B. N. REDDY, Dean, Faculty of Medicine, Goa Medical College, *Member*
 MARGARET ANGELA A.C., Principal, Carmel College, Nuvem, Salcete Goa, *Member*
 D. J. BHAT, Head, Department of Botany, Goa University, *Member*
 SECRETARY (FINANCE), Govt. of Goa, Secretariat, Panaji, Goa, *Member (Ex-Officio)*
 SECRETARY (EDUCATION) Govt. of Goa, Panaji, Goa, *Member (Ex-Officio)*
 REGISTRAR, Goa University, *Member-Secretary (Ex-Officio)*

During the year 1999-2000 seven regular meetings of the Executive Council were held.

The Executive Council has taken the following major decisions: Approval of schemes for recognition of National level research institutions outside Goa and for appointing Honorary Professors; conduct Academic Review of P.G. Developments for the first time in the history of Goa University, Set up a UGC Centre for Konkani Development Studies in Goa University; Sign MoU between Goa University and Bhabha Atomic Research Centre, Trombay, Start Five Year integrated Ph.D. programme in Atmospheric and Oceanic Sciences, Set up Intellectual Property Rights Unit and Publications Unit at Goa University.

1.4 LIST OF THE MEMBERS OF PLANNING BOARD

VICE-CHANCELLOR, Goa University, <i>Chairman (Ex-Officio)</i>	R.K. CHHABRA, C — 65 South Extension, Part — II, New Delhi, <i>Member</i>
D. N. DHANAGARE, Vice-Chancellor, Shivaji University, Kolhapur, <i>Member</i>	S.D. KARNIK, WRC-ICSSR, J.P. Naik Bhawan, Vidyanagari, Kalina, Bombay, <i>Member</i>
A. G. DESSAI, Dean, Faculty of Natural Sciences, Goa University, <i>Member</i>	REGISTRAR, Goa University, <i>Member-Secretary (Ex-Officio)</i>

The fourth annual meeting of the Fourth Planning Board was held on 19.11.1999.

1.5 LIST OF THE MEMBERS OF FINANCE COMMITTEE

VICE-CHANCELLOR, Goa University, <i>Chairman (Ex-Officio)</i>	University, <i>Member</i>
JOINT SECRETARY (Higher Education, Govt. of Goa, Secretariat, Panaji), <i>Member (Ex-Officio)</i>	SHRI PRADIP MAHATME, P. P. Mahatme & Co., Chartered Accountant, Gabmar Apartments, Vasco-da-Gama, <i>Member</i>
JOINT SECRETARY (Finance), Govt. of Goa, Secretariat, Panaji, Goa, <i>Member (Ex-Officio)</i>	REGISTRAR, Goa University, <i>Member (Ex-Officio)</i>
FINANCE OFFICER, Goa University, <i>Member-Secretary</i>	FR. ROMUALDO D'Souza, Director, Goa Institute of Management, Goa, <i>Member</i>
PROF. A. SREEKUMAR, Dean, Faculty of Management Studies, Goa	

During the year 1999-2000 two meetings of the Finance Committee were held.

1.6 LIST OF DEANS OF FACULTIES.

0. J. F. GOMES, Faculty of Languages & Literature	A. G. DESSAI, Faculty of Natural Sciences
M. A. SHAHI (until 30.11.1999), V.M. SHIVKUMAR (From 1.12.1999), Faculty of Social Sciences	B.N. REDDY, Faculty of Medicine
U. M. X. SANGODKAR, Faculty of Life Sciences & Environment	CHO PP DAMSEE, Faculty of Engineering & Architecture
	A. SREEKUMAR, Faculty of Management Studies

1.7 LIST OF OFFICERS OF THE UNIVERSITY:

B.S. SONDE, Vice-Chancellor	ALBERT FERNANDES, Assistant Registrar
D.V. BORKAR, Registrar	S.N. KAMAT DIAS, Assistant Registrar
U. B. NAIK, Finance Officer	ASHISH J. THOMAS, Assistant Registrar
S. K. DATTA, Dy. Registrar	S. K. GOLATKAR, Assistant Registrar
D. B. AROLKAR, Dy. Registrar	V.L. SAWKAR, Executive Engineer
V. P. KAMAT, Controller of Examinations	AMIT SRIVASTAVA, Assistant Engineer
PANDURANG V. KONNUR, Librarian M. S. CHAUHAN, University Engineer T.D.	S.S. TALAULIKAR, Assistant Engineer
HALARNKAR, Director of Students' Welfare	RAJANIKANT PARSEKAR, Assistant Engineer
U.V.K. SHANKHWALKAR, Assistant Registrar	M. CHAKRABORTY, Programmer
G.J.S. TALAULIKAR, Assistant Registrar M.A. VAIDYA, Assistant Registrar	SANJAY BANDODKAR, Programmer
G.D. NASNODKAR, Assistant Registrar	AVERTANO BARRETO, Uni. Asstt. Director of Sports and Physical Education
SHAIKH MAHMOOD, Assistant Registrar	PATRICIA SEQUEIRA, Medical Officer
LEO MACEDO, Assistant Registrar	V. B. LOTLIKAR, Assistant Accounts Officer
DONALD RODRIGUES, Assistant Registrar	M. MADHUSUDHAN, Assistant Librarian
M. SHREEDHARA, Assistant Registrar	S. K. MARIYAPPAGOUDAR, Assistant Librarian

1.8 OTHER BODIES/ASSOCIATIONS AND THEIR COMPOSITION

FORUM OF PRINCIPALS & REPRESENTATIVES OF MANAGEMENT OF NON-GOVT. COLLEGES IN GOA

RAVI NAIK, MP, *President*

A. K. HEBLEKAR, *ft. Secretary*

REV. FR. ANTIMO GOMES, *Chairman*

EXECUTIVE COUNCIL OF GOA UNIVERSITY TEACHERS ASSOCIATION

MAHENDER K, *President*

A. JAYANTHAN, *Member*

S. B HAT, *Vice-President*

C. D'Souza, *Jt. Secretary*

R. ROY, *Secretary*

JYOTI PAWAR, *Member*

S. GHAD1, *Treasurer*

B. KANOLKAR, *Member (Ex-Officio)*

U. MURALIDHARAN, *Member*

EXECUTIVE COUNCIL OF UNIVERSITY AND COLLEGE TEACHERS ASSOCIATION, GOA.

RADHIKA S. NAYAK, *President*

OLAVO F. A. G. MENEZES GAMA, *Treasurer*

P. G. DANDIN, *Vice-President*

LYDIA MENON, *Joint Secretary*

RAJENDRA, *General Secretary*

EXECUTIVE COUNCIL OF THE GOVERNMENT COLLEGE TEACHERS ASSOCIATION, GOA.

OSCAR NORONHA, *President*

DAISY JOHN, *Jt. Secretary*

CONSTANCIO FERNADES, *Vice-President*

NILESH BORDE, *Treasurer*

RAMRAO WAGH, *Secretary*

EXECUTIVE COUNCIL OF THE ASSOCIATION OF OFFICERS OF GOA UNIVERSITY

TANAB HALARNKAR, *President*

DONALD RODRIGUES, *Member*

M. CHAKRABORTY, *Secretary*

LEO MACEDO, *Member*

AVERTANO BARRETO, *Member*

PATRICIA SEQUIERA, *Member*

EXECUTIVE COUNCIL OF THE GOA UNIVERSITY NON-TEACHING EMPLOYEES ASSOCIATION

GANADHISH V. KENI, *President*

GAJANAN TAR I, *Member*

JOAO LOPES, *Vice-President*

Assis ARAUJO, *Member*

ANTONIO VAZ, *Gen. Secretary*

ASSIS ARAUJO, *Member*

NANDA GAUNS, *Jt. Secretary*

VASUDEV GAONKAR, *Member*

ANKUSH KINALKAR, *Treasurer*

DASHARAT K. KAMBLI, *Member*

ASHOK NAGARSHEKAR, *Member*

EXECUTIVE COUNCIL OF THE UNIVERSITY NON-TEACHING STAFF ASSOCIATION, GOA.

A. D. LOTLIKAR, *President*

SUMANT Y. MARIBAL, *ft. Secretary*

NAGUESH NAIK, *Vice-President*

PRADEEP V. DALAL, *Treasurer*

N. V. GOVINDAS, *Secretary*

THE EXECUTIVE BODY OF POST GRADUATE STUDENTS' UNION

PUNDALIK N. RAIKAR, *President*

KHALID H. SAIYED, *Sports Secretary*

SEETHARAM SANDHYA, *Secretary*

ADJURI A COLACO, *Ladies Representative*

NIRANJAN D. SAWANT, *Cultural Secretary*

K. MUKESH P., *Research Student's Representative*

THE EXECUTIVE UNION OF GOA UNIVERSITY STUDENTS' COUNCIL

CHANDRESH SADANAND NA IK, *Chairman*
LIGORIO JOHN FERNANDES, *Secretary*
RODRIGUES VILAN L., *Ladies Representative*
DALVIR RAMESHWAR BODLA, *Member*
C. EDWIN COUTINHO, *Member*

PRITESH BALKRISHNA DESAI, *Member*
FALDESAI PRITAM UDAY, *Member*
SUKENDRA LAXMAN GAUNKAR, *Member*
JAYESH BITIKA.11 REDKAR, *Member*

MANAGING COMMITTEE OF THE GOA UNIVERSITY CAMPUS CONSUMERS CO-OP. SOCIETY LTD.

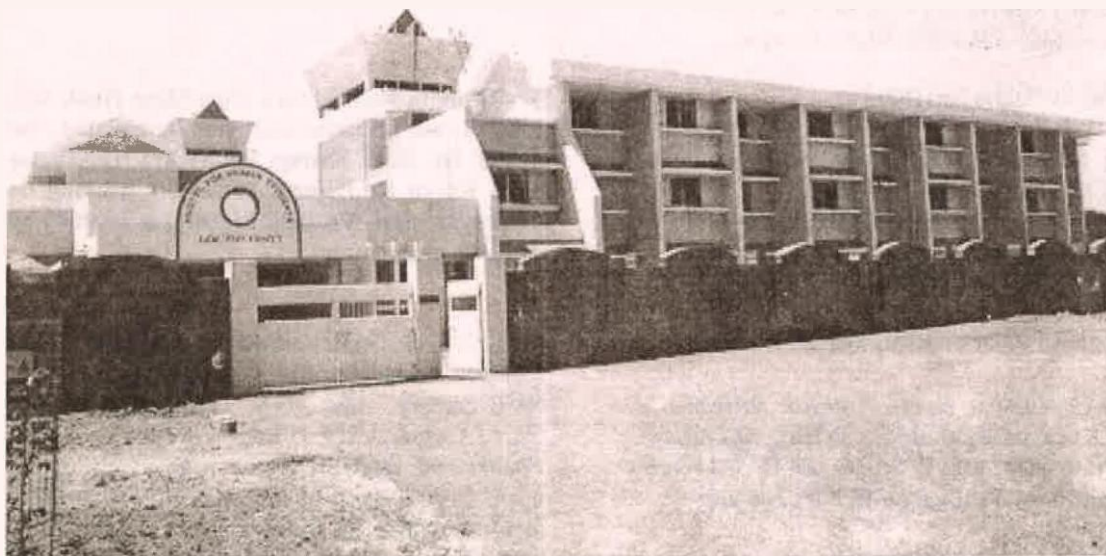
B. S. SONDE, *Chairman*
B. RAMESH, *Member-Secretary*
K. MAHENDER, *Treasurer*
D. V. BORKAR, *Member*
T. D. HALARNKAR, *Member*

G. G. KONDLI, *Member*
I. K. PAI, *Member*
A. B. PATIL, *Member*
PUNDALIK RAIKER, *Member*

UNIVERSITY CO-OPERATIVE CREDIT SOCIETY

VISHWASRAO D. SAWANT, *Chairman*
ANKUSH K1NALKAR, *Vice-Chairman*
VITHAL S. KERKAR, *Secretary*
K. G. PAI, *Treasurer*
DAYA MITRAGOTRI, *Member*

SHASHIKANT PARAB, *Member*
UDAY PARSEKAR, *Member*
ASHOK CHODANKAR, *Member*
VASUDEV GAONKAR, *Member*



Hostel for Women Students

PART 2: UNIVERSITY DEPARTMENTS

2.1 FACULTY OF LANGUAGES & LITERATURE

2.1.0 General Information regarding faculty: (Departments and Degrees)

DEPARTMENT OF ENGLISH: (M.A., M.Phil., Ph.D.) DEPARTMENT OF PORTUGUESE:(B.A., M.A., Ph.D.)

DEPARTMENT OF FRENCH: (B. A., M.A., Ph.D.)

DEPARTMENT OF HINDI: (M. A., M.Phil., Ph.D.)

DEPARTMENT OF KONKANI: (M.A., Ph.D.)

DEPARTMENT OF MARATHI: (M.A., Ph.D.)

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

CENTRE FOR KONKANI DEVELOPMENT STUDIES

FACULTY BOARD

O. J. F. Gomes, *Chairman*

A. K. Joshi, *Member*

S. D. Komarpant, *Member*

R. N. Mishra, *Member*

M. Selma de Veira Velho, *Member*

K. M. Sadre, *Member*

A. B. Patil, *Member*

S. Bhat, *Member*

I. B. Khan, *Member*

P.S. Tadkodkar, *Member*

The Faculty Board met twice during the year

2.1.1 LIST OF TEACHING STAFF:

(Name, Qualifications, *Designation*)

DEPARTMENT OF ENGLISH

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

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

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

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

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

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

NINA CALDERA, Ph.D., *Lecturer*

DEPARTMENT OF FRENCH

EDITH MELO FURTADO, M.A., *Lecturer*

ANURADHA WAGLE, M.A., *Lecturer*

DEPARTMENT OF HINDI

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

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

ISHRAT KHAN, PhD, *Senior Lecturer*

VRUSHALI MANDREKAR, M.A., *Lecturer*

RAVINDRA N. MISHRA, Ph.D, *Lecturer*

DEPARTMENT OF KONKANI

O.J.F. GOMES, Ph.D., *Professor & Head*

P.S. TADKODKAR, M.A., D.H.E., *Sr.Lecturer*

CHANDRALEKHA D'SOUZA, Ph.D, *Sr.Lecturer*

MADHAVI SARDESSAI, M.Phil, *Lecturer*

DEPARTMENT OF MARATHI

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

V.D. SAWANT, Ph.D, *Reader*

S.M. TADKODKAR, Ph.D, *Reader*

B.G. KANOLKAR, M.A, B.Ed., *Lecturer*

SUNITA UMRASKAR, M.A., *Lecturer*

2.1.2. Highlights of the research activities:

In the Department 15 Ph.D. students are working in diverse fields of research in drama, poetry, novel, the Department focuses on contemporary fields of knowledge like literary theory, Post-colonialism, Post-modernism and the Goan subjects like Tiatr, Khel and the contribution of Goan Writers to Literature Hindi Literature in translation, the dramatic form of Yakshagana in Kannada are being pursued by some teachers

Dr. Ravindra Nath Mishra (Goa Mein Hindi Kee Stithi Evam Anusheelan) has completed the project. Dr. B. K. Sharma Rohitashva (Dakshinee Hindi Kavya Ke Punarmulkayan) is working on the project. Smt. Vrushali Mandrekar is studying for Ph.D. programme.

Prof. O. J. F. Gomes edited an anthology of old Konkani literary writing from early times upto XVII century. Mrs. P. S. Tadkodkar and Dr. (Mrs.) Chandralekha D'Souza worked on *Indian Poetics* and *Western Poetics* respectively, under the U.G.C. scheme of preparation of University level textbooks by Indian authors. Mrs. P. S. Tadkodkar is in the final stages of her own research for her Ph.D. Mrs. Madhavi Sardesai, guided some students on research on linguistic aspects of Konkani and did her own research toward her Ph.D

DEPARTMENT OF PORTUGUESE

SELMA DE V. VELHO, Ph.D., *Reader & Head*
M.C. BARRETO, M.A., *Lecturer*

Dr. Velho worked on - (i) The Folktales of India and Portugal (ii) Tropical Vectors in Portuguese Folktales.

CENTRE FOR KONKANI DEVELOPMENT STUDIES

PROF. O.J.F. GOMES, Ph.D. Hon. *Director*
PRAKASH PARTEKAR, M.A., [M.Com.](#) *Lecturer*

2.1.3 List of visiting scholars: (Name of Scholar, Institutional Affiliation, *Title of Lecture*, Date)
Prof. Umashankar Upadhyae, Pune University, *Tulsidas Ka Kavya & Bhahsh Vigyan*, 19th & 20th August, 1999 and 8th March, 2000.

Dr. Premshankar, Sagar University, *Chayavadi Kavita*, August, 1999.

Dr. Ramesh Kuntal Megh, Lucknow, *Marxicism & Modern Poetry*, 24th & 25th January, 2000.

Prof. B. Zakhariyin, *A Study of Indian Language in the Moscow University*, Feb. 11, 2000

Dr. A. P. Tripathi, Ucassiam, Palem, Mapusa, Goa, *Hindi Literature*, a Contributory Teacher.

Dr. C. S. Tiwari, Tonca, Caranzalem, Goa, *Hindi Literature*, a Contributory Teacher.

Prof. Namwar Singh, Delhi, *Samakaleen Kavita*, 7th March, 2000.

2.1.4 Sponsored Research Projects sanctioned in 1999-2000 (Name of Investigator/s, *Topic*, Date of Sanction, *Funding Agency*, Amount)

Dr. B. K. Sharma Rohitashva, *"Dakshinee Hindi Kavya Ka Mulyamkan"*, 30th October, 1998, UGC Unassigned Grant, Rs. 25,000/-.

K. S. Bhat, *The Discourse of Modernity and Yakshagana*, 22.05.2000, Goa University, Rs. 14,000/-.

N. Caldeira, *Interplay of Continuity and Change: Hybridization of Musson Khell*, 22.05.2000, Goa University, Rs. 12,000/-.

2.1.5 Seminars/Conferences/Workshops, etc.

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

National workshop on "Teaching of Literary Texts", 21/1/2000 and 22/1/2000, Embassy of France, Department of French.

Seminar on "Bhavani Prasad Mishra", 12/7/1999, Goa University, Department of Hindi.

Translation Workshop, 23/10/1999 and 24/10/1999, Goa University and Menezes Braganza, Panaji, Department of Hindi.

Seminar on "Bhakti Sahitya with reference to Kabeer", 6/1/2000 and 7/1/2000, Bhartiya Hindi Parishad, Allahabad and Gomantak Rashtrabliasha Vidyapeth, Margao and Department of Hindi, Goa University, Department of Hindi.

Multi Lingual Poets Meet, 7/1/2000, Goa University, Department of Hindi.

"Tale of the Unknown Island", 5/2/1999, the International Conference on Saramago organized by Sahitya Academy and Embassy of Portugal, New Delhi, Department of Portuguese.

"SAUDADE"- The Mysterious Portuguese Numen", 8/2/1999, the International Seminar on Almeida Garrett org. by J.N.U. and Embassy of Portugal, Dept. of Portuguese.

Folktales of India and Portugal-some common themes, 30/3/99, the Seminar on Comparative Literature org. by Delhi University and Embassy of Portugal, Dept. of Portuguese.

"Fin-De-Siecle: The flow of time in the works of Almada-Negreiros" 2/11/2000 to 4/11/2000, Paper presented at the "International Seminar: Fin-de-Siecle: The Twentieth Century in Retrospect" organised by University of Delhi and Embassy of Portugal, Department of Portuguese.

The Hindi Influence in Portugues Literature, 6/9/99 to 20/9/00, 8 Lecturers at the 1st Summer Course on Indology in Portugal, org. Gil Eanes Research Centre, Lagos, Dept. of Portuguese.

2000 Summer Programme in India for Canadian Studies, 17-29 January 2000, IA CS, Department of English.

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

O.J.F. Gomes, (0 University of Western Sydney-Macarthur, Australia Sydney, 15-16 July 1999, "The Portuguese influence in Timor-its parallels and contrasts with Goa" and (ii) International Association of Tamil Research, University of Malaya, Malayasia, Kuala Lumpur, Malayasia, 21-24 October 1999, "Pre-16th-Century Konkani Ratmayana-its role in identity formations. Also chaired one session of the conference on 'Regional Ramayanas'.

- Madhavi Sardesai, *Seminar on Voices of Women in Konkani Literature-Org. by Konkani Bhasha Mandal*, Bangalore, Feb. 2000, *Voices of Woman in the Konkani Novel & Short Stories*.
- A. B. Patil, (i) *First World Conference Auto/biography*, University of Peking, Beijing, China, 21-24 June 1999, *'Poisoned Bread and the 'Postcolonial Indian Auto-photo-self-narratives'*, (ii) *International Seminar on 'Indian character of Indian Literature'*, Leiden University, Leiden, The Netherland, 9-12 March 2000, *The location of Culture in Postcolonial Indian Novels'*, (iii) *International Seminar on 'Dwelling in the House of World Literature'*, Max Muller Bhavan and Mumbai University, Mumbai, September 30 to October 1. 1999, *'The battle of scripts and bodies in Portuguese Goa'*, (iv) *National Seminar on 'Literature and Social Transformation'*, Department of English, Andhra Pradesh University, Kakinada Centre, Kakinada, 25 — 26 March 2000, *'The Poetics and Politics 4 Culture in Two Indian Novels Today'*, and (v) *National Seminars on 'Literally Criticism & Indian Issues and approaches'*, Saurashtra University, Rajkot, 27 — 29 March 2000, *'WLWither Theory : An Indian English Teacher Regional Language writer in search of theory'*.
- K. S. Bhat, *M. S. University*, Baroda, 1-2 November 1999, *'New Historicism: A Critique'*.
- K. Budkuley (i) *Mythic Society Bangalore and Karnataka Sahitya Academi, M'Lore*, Bangalore. 6th Feb. 2000, *'Feminist voice in Konkani Poetry'*, (ii) *Institute Menezes Braganza*, Panaji. 12.03.2000, *'Konkani short story: Growth and Contribution'*, (iii) *Institute of ludo-Portuguese Studies & Institute Menezes Braganza*, Panaji, 16.12.2000 to 19.12.2000, *'The Changing Spectrum of Darkness in the Goldingian Novel'*.
- N. Caldeira, *National Conference on 'Dalits'* Pastord Institute, Old Goa, 2-4 February 2000.
- Edith Melo Furtado, *Association of Indian Teachers of French*, Goa University, 21/1/2000 and 22/1/2000, *"Skills, for appreciation of a fictional literary text"*.
- R. N. Mishra (i) *Goa University*, Goa, 27/12/1999 and 28/12/1999, *Mahapandit Rahul Sankrityayan Yatra Sahitya Evam Dreesti*. (ii) *Goa University and B.H.P. Allahabad*, Goa, 6/1/2000 and 7/1/2000, *Bhakti Andolan Evam Kabeer and* (iii) *D.B.M. Ruia College*, Mumbai, 10/2/2000 and 11/2/2000, *SagunopashakTulsi*.
- B. K. Sharma (i) *Jabalpur University*, 27 & 28/12/1999, *Rashtriya Chetna Aur Adhunik Kavya*. (ii) *Goa University*, Goa, 6/1/2000, *Punayagran Kall Aur Kabeer*, (iii) *Sankaracharya University*, Kaldi, 10/2/2000, *Uttarshatee Ka Kavya*, (iv) *Bombay University*, Mumbai, 15/2/2000 and 17/2/2000, *Eakaswee Shade Ka Kavya and* (v) *H. S. Sammelan*, Bangalore, 30/3/2000 and 31/3/2000, *Contemporary Criticism*.
- Ishrat Khan, *Goa University*, Goa, 6/1/2000, *Kabeer Aur Sufimat*.
- Vrushali Mandrekar, *Goa University*, Goa, 7/1/2000, *Kabeer Kavya Mein PraticYojana*.
- Ravindra Mishra (i) *Goa University*, Goa, 6/1/2000 and 7/1/2000, *Kabeer Kaa Aatmakathya*. (ii) *Mumbai University*, Mumbai, 15/2/2000 to 17/2/2000, *Ekkisavin Sadi Kee Sahityik Patrakarita*.
- S. D. Komarpant (i) *Kala Academy*, Goa, 24.10.1999, *Marathi Sahitya: Visavya Shatakacha Adhava.and* (ii) *Akhil Bharatiya Marathi Sahitya Mahantandal*, Mumbai, 26.03.2000, *Marathi Short Story: From 1976 to 2000*.
- V. D. Sawant (i) *Bharathi Vidyapith Mahavidyalaya*, Kadegao, 30,10.1999, *'Nananitiwad' Marathi Sameeksheteel Nave Pravaha*. (ii) *Sahitya Academy & Amravati Vidyapith*, Amaravati, 7th & 8111 January 2000, *'Charitra-Atma-Charitrache Siddhant' Vangamayaprakaranche Siddhanti* (iii) *Marathi Department SIVDT University*, Mumbai, 28th & 29th January 2000, *'Ardlzshatakacha Kadambarikar' Ardhshatakateel Marathi Kadambari and* (iv) *Gomantak Marathi Academy*, Panaji, 25th & 26th March 2000, *'Vibhavari Vangmayateel Stree' Streewad Ani Marathi Sahitya*.

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

Ravindra Mishra, *Aaj Ka Katha Sahitya Aur Aalochana Ke Sarokar*, Katha Kram, Lucknow, 13-14/11/99.

V. D. Sawant and B. G. Kanolkar, *Translation Workshop*. Dept. of Hindi, Goa Uni., 22-23/10/99.

K. S. Bhat, *A workshop for local English teachers (LILA), Mapping the Landscape of Cultural Studies: History, Theory and Ideology*, Goa University, 11th April 2000

K. Budkuley, *A workshop for local English teachers (LILA), 'Culture studies: Conventions and Conveniences'*, Goa University, 10th April 2000.

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

O.J.F. Gomes (i) *The Portuguese impact on the Konkani Language*, Volume-III of the Proceeding of the International Conference on 'Vasco-Da-Gama and India' published by Calouste Gulbenkian Foundation, Lisbon, 1999 and (ii) *Indo-Portuguese Cultural Encounteraction*,

Interaction, Attrition and Assimilation, Proceeding of the International Congress on Vasco-Da-Gama Men Voyage and Cultures- (1998) published by CNCDDP, Lisbon, 1999.

- Chandralekha D'Souza, "Ablujitchi Kavita", "Jaag"-Goa, May 2000.
- Madhavi Sardessai (i) "Influence of Konkani Lexicon-a Study" (a paper in 4 parts written in Konkani), "Jaag" Vol-26, August, September, October and December 1999, (ii) "Diaglossia-a focus on the Goan Konkani Community" (a paper in 4 parts, written in Konkani), "Jaag" Vol-26, January, February, March, April 2000, (iii) "Baazari Hindi" - Review of an Ethnolinguistic Study (article in Konkani), "Jaag" Vol-26, May 2000 and (iv) "Pidgin and Creole languages"(article in Konkani), "Jaag" Vol-26, June 2000.
- A. B. Patil (i) A Review of B.N. Singhs (ed) *Essays on David Williams - A Novelist The Canadian Prairie*, Review Projector (India), 2-2, April - June 1999, (ii) *Konkani/Marathi Theatre: Dashavtar & Tiatr*, Companion to Indian Theatre, OUP Book, p. 203-4, Aug. 1999, (iii) Review of 'Under the Painted Eyes: A Story of Nepal', Review Projector India, 2-4, p.12, Dec. 1999, (iv) *Ikisavi Shatabdhi rne Sahitya aur Sanskrati*, Purnakumbh, p. 27-28, April 2000 and (v) Review: *Anna Bhau Sathe: Maker of Indian Literature*, Review Projector (India), 3-1, p. 17-18, March 2000.
- K. Budkuley (i) Article on 'Revisioning the Empowerment of Women', Govapuri, Vol.I, No. 3, pp. 37-44, Oct. - Dec. 1999, (ii) *Aashadhantlo Ek Dis: Aashayachem Marm Anusarjanat*', Jaag, Vol. XXVI, No.3, pp.23-4, Oct. 1999, (iii) 'Kaashili Kavita: Kamaavishechen Kaashed', Jaag, Vol.XXVI, No. 8, pp. 23-4, (iv) 'Konkani Kathechi Vaatchal ani Yogaddan', Proc. Kathan 2000, pp. 21-7, March 2000, (v) 'Paschaat Pathikaachea Nadrentlean Paanthastha', Jaag, XXVII, pp. 21-2, 1 Aug., 2000, (vi) 'Lokbimb: Loksankrutayechi Bhovtaashi Vallakh', Jaag, XXVII, pp. 22-4, 2 September 2000 and (vii) 'Konkani Kavitentlo Stripar Taallo', Konkani Saurabh, II, No. 3, pp. 5-6, Oct.-Nov. 2000.
- Anita Vashishta (i) 'Article on Ferry Crossing: Short Stories from Goa, Critical Practice. Jan. 1999, (ii) 'Re-defining Feminine Space and Aesthetics: A Study of Maitreyi Pushpa's Edennam and Chaak, Critical Practice, June 2000 and (iii) 'Hashiye Par Hashiya Katha Kram, Dalit Literature, Nov. 2000.
- R. N. Mishra (i) *Samakaleen Kavita Aur Chandrakant Devtale*, Hindustani Academe Trimasik Allahabad, 03, July-Sept., 1999), (ii) *Sam Sahitya: Kaveer Kee Pransgeekta*, Dakshin Bharat Patrika, Chennai, Nov., 1999, (iii) *Andhare Band Kamre Mein Sampurna ghar Kee Talash*, Bharatvani, 10, Jan., 2000, (iv) *Jayasi Ka Kavya Evam Sanskritik Mulya*, Bhasha Patrika, 04, March-April, 2000 and (v) *Mahadevi Varma Ki Rahasya Chetna Mein Lokmangal*, Gagnachal, 02, April-June, 2000.
- B. K. Sharma Rohitashva (i) *Lohiya Aur Hyderabad*, Samakaleen Samanye Jan, Nagpur, November, 1999, (ii) *Sakashtakar Auchitya*, Setu Sagar, Goa, Feb., 2000 and (iii) *Vichar*, Samakaleen Patrika, Allahabad, March, 2000.
- Ishrat Khan (i) *Kabeer Kavya: Arbi-Farci Shabdavali and Sab Ke Das Kabeer*, Sahitya Setu Sagar, 1999 and (ii) *Kabeer Aur: Sufi mat*, Anusheelan Patrika, Kabeer Vishashank Allahabad, 2000.
- Vrushali Mandrekar (i) *Kabeer Kavya Mein Prateek Yojana*, Sahitya Sew Sagar and (ii) *Prasad and Premchand*, Konkani Vishva Kosh, II.
- Ravindra Mishra (i) *Peek Kee Ladki (Story)*, Kathadesh Delhi, July, 1999, (ii) *Eklcisavin Sadi*, Samata-Sandesh, Deewali Issue-Udaipur, Rajasthan, 1999 and (iii) *Sanskrit Aacharyon Kee Drishti Mein Sadharanika ran*, Sahitya Bharti Lucknow, July, 1999.
- S. Vieira Velho, *A Influencia Hindu na Literatura Portuguesa*, Gulbenkian International Foundation in Association with the Chancellors of the Universities of Paris (International Conference), Vol.III, pg. 223-236, Lisboa 1999.
- S. D. Komarpant, *Muktipurva Kalakhandateel Gomantakeeya Marathi Katha*, 'Maitra', March 2000.
- V. D. Sawant, *Shudhlekhnavaddalcha Bhayagand*, 'Maitra', Yuva Sahitya Sammelan Special Number Gomantak Marathi Academy, Panjim.
- B. G. Kanolkar, *Madhyavarti Marathi Kathechya Sandharbhat Gomantikaya Katha*, Maitra, Gomantak Marathi Academy, March, 2000.

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

- O.J.F. Gomes (i) *Old Konkani Language & Literature - The Portuguese Role (Four books in one volume)*, Konkani Sorospot Prakashan-Goa, Oct. 1999 and (ii) *Substantial contributor (Volume I-pages 256-278 & Volume -II-pages 908-1006) to "Medieval Indian Literature-An anthology" - Ed. Ayappa Paniker*, Sahitya Akademi New Delhi, 1999.
- A. K. Joshi (i) *Bertelt Brecht Cha Kalavichar*, Lokvangmay Griha, Mumbai, Jan 2000 and (ii) *British Bombay ani Portuguese Govyateel Wangbay*, Granthali Prakashan, Mumbai, 1999.
- A. B. Patil, *Whandani' story in Anusthubh and other stories*, Dipawali Spl.Issue, Feb.2000.

V. D. Sawant (i) *Udaharnarth Kosala: Vividhangee Samiksha*, Shabdalya, Shree Rampur, July, 1999 and (ii) *'Kadambarikar Sane Guruji'*, Sane Guruji, Punarmulyakan, Sahitya Akademy, Delhi, Dec. 1999.

B. G. Kanolkar, *One Chapter: Pundalik Nayak: Samlcalin Bharatiya Konkani natakkar Vemchik Pundalik*, Konkani Bhasha Mandal, Margao, Aug. 1999.

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

RamIcrishna Halarankar, Hindi, *Sarveshwar Dayal Saxena Evam Nagesh Karmali Ka Kavya Ka Tulnatmak Adhayan*.

Geeta Kale, Marathi, *lleghadutache Marathi Avatar*'.

Sachin Kandolkar, Marathi, *'Nature and manner of self expression in Marathi Personal Essay (from 1930 — 1990)*.

Archana Pandit, Marathi, *'Pandit Mahadevshastri Joshi-Yanche Kathavishwa*.

2.1.9 Any other information

1. Ravindranath Nath Mishra: (i) President of 'PRAYAS' a literary and cultural organisation of Goa, (ii) Member of (a) Bhartiya Hindi Parishad, Allahabad. (b) Dakshin Bharat Hindi Parishad, Kolhapur. (c) Goa State Committee for Hindi Development.
2. B. K. Sharma Rohitashva: (i) Working for D.Litt. on the type of "Samkaleen Kavya Ka Samajshas" at Lucknow University, (ii) Editor of "Sahitya Setu Sagar" Goa. (iii) Editor of Goa University text book of Kavya Dhara B.A. 1st & 2nd year. (iv) Member of BOS of Department of Hindi, Goa University.
3. Ravindra Mishra: Editor of Sahitya Setu Sagar, (Only Literary monthly) from Goa from Jan, 98.
4. O.J.F. Gomes: Part-Research Fellowship from Fundacao-Oriente to work on the "Role of the Religious order in Goa (16-17 centuries) vis-à-vis Konkani Culture.
5. Dr. Patil interviewed for Doordarshan, Panaji kendra 'Development of a Writer'— 26th Oct.1999.
6. K. Budkuley: Invited to Chair the session on 'Efficacy of Women's Issues in the writing of Goan Women' at Lekhikaa 2000, Institute Menezes Braganza, Goa, 20-2-2000, (ii) Invited to chair, and discussion on 'Regionalism in Literature' by the AIR, Panaji. (iii) Invited to participate in a discussion on 'Nativism: A Literary Trend' at AIR, Panaji on 31-7-2000. (iv) Chair to the All Goa Multi—lingual Poet's Meet organised at Institute Menezes Braganza, Panaji on 18-12-2000. (v) Invited to talk on 'New Trends in Literary Theory' on AIR, India.

2.1 FACULTY OF SOCIAL SCIENCES

2.20 General Information regarding faculty: (Departments and Degrees)

DEPARTMENT OF ECONOMICS: (M.A., Ph.D.)

DEPARTMENT OF HISTORY: (M.A., Ph.D.)

DEPARTMENT OF PHILOSOPHY: (M. A., Ph.D.)

DEPARTMENT OF POLITICAL SCIENCE: (M.A., Ph.D.)

DEPARTMENT OF SOCIOLOGY: (M.A., Ph.D.)

CENTRE FOR LATIN AMERICAN STUDIES:
(M.Phil., Ph.D.)

CENTRE FOR WOMEN'S STUDIES.

FACULTY BOARD

M. A. Shahi (until 30.11.1999), *Chairman*

V. Shivkumar (From 1.12.1999), *Chairman*

P. R. de Souza, *Member*

A. V. Afonso, *Member*

V. Shivkumar, *Member*

P. P. Kamat, *Member*

A. R. Padoshi, *Member*

S. M. Noronha, *Member*

N. S. Bhat, *Member*

Alito Sequiera, *Member*

U. A. Vinay Kumar, *Member*

The Faculty Board met once during the year

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

DEPARTMENT OF ECONOMICS

A.R. PADOSHI, Ph.D. Head & *Reader*

S.M. NORONHA, Ph.D, *Reader*

PRANAB MUKHOPADHYAY, M.Phil, *Lecturer*

P.K. SUDARSAN, Ph.D., *Lecturer*

2.2.2. Highlights of the research activities:

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

DEPARTMENT OF HISTORY

PRATIMA P. KAmAT, Ph.D, *Reader & Head*
N. SHYAM BHAT, Ph.D, *Reader*
M.C. Pius, Ph.D., *Reader*
UJJAYAN BHATTACHARYA, M.Phil., *Lecturer*
NAGENDRA RAO, M.Phil., *Lecturer*
R. VENUGOPALAN NAIR, M.A., *Lecturer*

In 1999-2000 the Department concentrated on activating the thrust areas, particularly Maritime History. In keeping with it a new course on Maritime History was introduced, and the Department and the National Institute of Oceanography organized a workshop/seminar on special aspects of Maritime History.

DEPARTMENT OF PHILOSOPHY

A. V. AFONSO, Ph.D., *Professor and Head*
U. A. VINAY KUMAR, Ph.D., *Lecturer*
SANJYOT D. PAT VERNEKAR, M.A., *Lecturer*
KOSHY THARAKAN, M.Phil., *Lecturer*
MILAN DESAI, Ph. D., *Lecturer*

A. V. Afonso: A research on "linguistic basis of consciousness and its implications for growth of human knowledge" is in progress. Smt. Vernekar: working on medical negligence, informed consent, proxy consent etc. that occur in medical practice. Koshy Tharkan: Focused on phenomenological perspectives in Social Sciences.

DEPARTMENT OF POLITICAL SCIENCE

PETER R. de SOUZA, D.Phil., *Professor & Head*
ARUN K PATNAIK, Ph.D., *Reader*
AURELIANO FERNANDES, Ph.D., *Reader*
RAHUL TRIPATHI, M.Phil, *Lecturer*

Research activities focused on the following areas: Democracy & Governance, Political Theory. The Department has been working with the Centre for the Study of Developing Societies in 'Election Studies' and with the State Institute of Rural Development on 'Issues of Local Government'.

DEPARTMENT OF SOCIOLOGY

NARAYAN JAYARAM, Ph.D., *Professor*
GANESHA SOMAYAJI, Ph.D., *Reader*
ALITO SEQUEIRA, M.A., *Lecturer*
MANISH THAKUR, M.Phil., *Lecturer*
SUJATHA V., Ph.D., *Lecturer*

The various areas of interest for the faculty are: Diaspora, migration, the sociology of food, sociology of medicine, rurality and tourism. Field-based studies on Goa are encouraged for MA projects. The Department also encourages researchers from other institutions to work with the Department in a mutually enriching exchange.

CENTRE FOR LATIN AMERICAN STUDIES

V. SHIVKUMAR, Ph.D., *Professor & Head*
DILIP LOUNDO, Ph.D., *Visiting Lecturer*
DALBIR SINGH, Ph.D., *Lecturer*
APARAJITA GANGOPADHYAYA, M.Phil., *Lecturer*

A co-edited book entitled "State and Society in Latin America: Challenges of Globalization" is published. The Faculty completed minor research projects also

CENTRE FOR WOMEN'S STUDIES

N. JAYARAM, Ph.D., *Professor-In-Charge*
SHAILA DESOUZA, M.A, *Research Officer*

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

A. M. Bhattacharyajee, U.G.C. Visiting Professor at the National Law School of India University, *Constitutional Law*, 14/28 July 2000 and 4/6 Aug. 2000.

K.S.R.V.S Chalam, Director, Directorate of Planning, Statistics and Evaluation, Government of Goa, *Development Paradoxes in Goa*, 20.10.1999.

T. R. deSouza, Universidade Lusofona, Lisboa, *Socio-Economic Aspects of the History of Goa*, Aug, 1999.

Shailendra Bhandare, British Museum, London, "*Coins in the Study of History*", 14/2/2000.

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

Pratima Kamat, "*The Family Laws of Goa: A Gender Audit*", Funded by the Goa State Commission for Women, Panaji, Rs. 35,000/-.

2.2.5 Seminars/Conferences/Workshops, etc.

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

Indo-U.S. Relations, 31st March, 2000, Department of Political Science and C.L.A.S.

Refresher Course, March 2000, A.S.C., *Goa University*, History Dr. Pratima Kamat, Coordinator.

Ancient and Medieval Ports of Goa and Shipwrecks, 2 June 2000, *NIO Dona Paula*.

Seminar on Indo-US relations in the perspective of Clinton's visit.

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

A. V. Afonso, (i) *Centre for Studies in Civilizations*, New Delhi, 23-25 February 2000, *Understanding Institutional Individualism*, (ii) *Indian Council of Philosophical Research*, (N.D.) Pondicherry University, Pondicherry, 14-16 March 2000, *From Dilthey to Ricoeur: An Idea of 'Social Science'*

Sanjyot D. Pal Vernekar, *The Sangath society, Goa and VHAI, New Delhi*, International Centre, Goa, 19th and 20th April, 2000 *"Problem of Informed Consent in Medical Practice"*.

Koshy Tharakan, *Goa University*, Goa, 26th February, 2000, *"Gandhi and Environmental Ethics"*.

Peter R. deSouza, i) *Konrad Adenauer Foundation, Society for Peace, Security & Development Studies, IIC & Rastriya Jagriti Sansthan*, New Delhi, 11-13 December, 1999, *Discussant of paper on 'Sub-National Governments'*, (ii) *University of Pennsylvania Institute for the Advanced Study of India, & Ford Foundation National Institute of Rural Development*, New Delhi, 23-25 January, 2000, *'Decentralization and Local Government: the 'second wind' of democracy in India'*.

A. Fernandes, i) *Conference on Gram Sabha*, Hyderabad, 28/29 July 99, *Reconnecting Sabha to Gram*.

(ii) *National Society for Promotion of Development Administration, Research & Training, Mussorie, Minor Forest Produce UNDP frail New Delhi*, Aug. 20, '99, *Unfulfilled Promises of Panchayati Raj*.

N. Jayaram i) 6th *International Symposium on Role of Universities in developing areas*, org. by INRUDA & ESTP, Paris, 8-11/6 1999, *Reorientation of Higher Education in India: A Prognostic Essay*. (ii) *The XIVth General Conference of the International Federation of Social Science Organizations (IFSSO) on 'Interface of the Social Science with Science and Technology'*, Naresuan University, Phitsanulok, Thailand, 17-19 November 1999, *'Science Technology and Development: A Sociological Appraisal of the Indian Experience'*.

iii) *IASSI Regional Seminar on 'India on the Threshold of the New Millennium: The Unfinished Agenda and the New Challenges'*, Institute for Social and Economic Change, Bangalore, 15-16 December 1999, *'Multiculturalism and Nation-building: A South Indian Perspective'*.

iv) *International Conference on 'Culture and Economy in the Indian Diaspora' cosponsored by India International Centre, New Delhi, and Transnational communities Research Programme of the British Economic and Social Research Council*, India International Centre, New Delhi, 8-10 April 2000, *'The Politics of 'Cultural Renaissance' Among Indo-Trinidadians'*.

v) *Seminar in memory of Professor Srinivas, organized by Institute for Social and Economic Change and Mythic Society*, Bangalore, 30th April 2000, *'M. N. Srinivas and Indian Sociology'*.

G. Somayaji, *Seminar on Problems of the Aged: Challenges and Remedies* organized by the Dept. of Sociology, Kuvempu University, Shimoga, 28-29 Feb. 2000, *"Transition, Transformation and Re-Socialization: An Auto-biographical approach to the question of elderly in India"*.

Shaila D'Souza i) *Third International South Asian Women's Conference*, LOS Angeles, USA, 6-7 May, 2000, *'Tradition and Modernity in Maternal Health'*. (ii) *UGC National Seminar on Atrocities on Women: Break the silence organized by the S. V. University, Tirupati*, 1-2 March 2000, *"Are Just Laws Enough?"*.

Pratima Kamat, *Xavier Centre of Historical Research*, Goa, 6-9 September 1999, *Peasantry and the Colonial State in Goa, 1946-1961*.

N. Shyam Bhat i) *Xavier Centre of Historical Research*, Goa, 6-9 September 1999, *Trade in Goa during the 19th century with special reference to colonial Katiara.*, (ii) *Department of History and Archaeology, Kuvempu University, Shimoga*, 11-12 November 1999, *Land Revenue and Economy during the Keladi Period and (iii) Indian History Congress, Calicut University, Calicut, Kanara Rice and Goa Salt: Trade on the Western Coast in the 19th Century*.

Nagendra Rao, *Indian History Congress, Calicut University, Calicut*, December, *Trade and Urbanisation in South Kanara, A.D. 800-1600*.

Pranab Mukhopadhyay, *State of Goa 's Health, Sangath & Voluntary Health Association of India, New Delhi*, International Centre, Goa, 19-20 April 2000, *Health and Tourism in Goa*.

Aparajita Gangopadhyay, *Department of Political Science & Peaceful Society, Goa, Goa University*, 26-02-2000, *Gandhi and Global Peace Movement*.

Dilip Loundo, (i) *Indo-European Studies*, Goa, December 1999, *Jose Saramago and* (ii) *Dept. of Pol. Sci. & Peaceful Society, Goa*, Goa Uni. Feb. 26, 2000, *Brazilian Outlook on Gandhi*.

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

- A. V. Afonso (i) *History, Culture and Consciousness*, India International Centre, Delhi, Feb. 22, 2000, (ii) *Gandhi and Swaraj*, India International Centre, New Delhi, 15th December, 1999.
- K. Tharakan, *International Colloquium on Buddhism*, University of Hyderabad, 14 and 15 Dec, 1999).
- Peter R. deSouza (i) *Dalits and the State*, Goa, 2-4 February, 2000, (ii) Lokniti — *State & Democracy*, New Delhi, 9-10 July, 2000.
- A. Fernandez (I) *Workshop on Sex Tourism on the Western Coast of Goa*, 29-30 Sept., 1999, (ii) *Workshop on Dalits*, Old Goa, February, 2000.
- R. Tripathi, *Data Analysis in Social Sciences*, Tata Institute of Social Sciences, April 24 -May 6, 2000.
- Narayana Jayaram, *'Rural Livelihood Systems' (An Indo-Swiss Research Collaboration)*, The Institute of Rural Management, Anand (Gujarat), 17-18 Feb. 2000.
- Alito Sequeira, *Consultation on GATS & Tourism, A consultation organized by EQUATIONS (Bangalore) and Tourism Watch, Stuttgart, Germany*, New Delhi, 15-17 Feb., 2000.
- Manish Kumar Thakur, *National Workshop on "Anthropology as Cultural Critique"* Centre for Studies in Social Sciences, Calcutta, 17-19 Aug., 1999.
- P. Kamat and M. C. Pius, *Ancient and Medieval Ports of Goa & Shipwrecks*, NIO, Goa, June 2, 2000.
- Ujjayan Bhattacharya, *Refresher Course in History*, ASC, Goa University, March 2000.
- Pranab Mukhopadhyay, *Applied Bayesian Methods in Econometrics & Forecasting*, Indian Statistical Institute Bangalore, 10-15 Jan., 2000.

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

- A. V. Afonso (i) *"Religion and Philosophy" in (ed.) Rahamat Tarakire, Encyclopaedia of Religion* Kannada University, Hampi), 2000, (ii) *"Ethics of Business and Business of Ethics" in (ed.) P. N. Reddy Indian Ethos in Management*, CBIT Publications, Hyderabad, 1999.
- Koshy Tharakan, *"Husserli and Contemporary Philosophy of Mind"*, Scientific and Philosophical Studies on Consciousness (eds.) S. Menon, M. G. Narasimhan, A. Sinha and B. V. Sreekantan, National Institute of Advanced Studies, Bangalore, 1999.
- P. deSouza (i) *The Election Commission & Electoral Reforms in India in D.D. Khannatal Democracy, Diversity, Stability: 50 Years of Indian Independence*, MacMillan, New Delhi, 1998, pp 51-75. (ii) *'Negotiations towards a Political Community: Parties and the Electora Process in India'* V. A. Pai Panandikar and Ashis Nandy (eds) Contemporary India, Tata — McGraw Hill, New Delhi, 1999, pp 189-212, (iii) *'Appeasement of Minorities' and Multiculturalism: The Indian Debate'*, D. L. Sheth and G. Mahajan (eds) Minority Identities and the Nation—State, O.U.P., Delhi, 1999, pp. 206-219, (iv) *'Democratic Decentralization of Power in India'*, D. D. Khanna (et al) Principles, Power and Politics, MacMillan, New Delhi, 1999, pp 136-149 and (v) *'Pragmatic Politics in Goa 1987-99'* Economic and Political Weekly, 21-28 August, 1999, pp 2434-2439, Special Issue on "Electoral Politics in India", 1989-99.
- A. Fernandes (i) *Goan Polity: Change in Process?* Vikalp. Alternatives, Spl issue on Elections 99. Vikas Adhayan Kendra, Mumbai, Vol.VII No. 2 & 3, 1999, (ii) *Construction of the State, Women and Empowerment* (ed) Sarraswati Haidar, Institute of Social Sciences, New Delhi, Feb. 2000, (iii) *Reconnecting of Sabha to gram, Strengthening Village Democracy*, (Ed) R.C. Choudhury and S.P. Jain, National Institute of Rural Development, Nov. 1999 and (iv) *Goa Public Service Commission*, Public Service Commissions in India (Ed) Hoshiar Singh, Kitab Mahal, New Delhi, 1999.
- N. Jayaram (i). *"Regional University and National Development: The Case of the University of the West Indies"*, Journal of Social and Economic Development, 2(1), pp 88-100, 1999, (ii) *"Introduction" to Ramesh Deosaran: Psychonomics and Poverty: Towards Governance and a Civil Society. Kingston, Jamaica: The University of the West Indies Press*, pp. xviii-xx, 2000, (iii) *"Sociology of Youth in India"*, in M.A. Gore (ed): *Third Survey of Research in Sociology and Social Anthropology*, New Delhi: Indian Council, of Social Science Research and Manak Publications, Vol.I, Chapter 5, pp. 221-295, 2000 and (iv) *"The Dynamics of Language in Indian Diaspora: The Case of Bhojpuri/Hindi in Trinidad"*, Sociological Bulletin, 49(1), pp. 41-62, March 2000.
- G. Somayaji, *Social Worlds of the Elderly in a Micro-setting: A Projection*, Samaja Shodhana, Vol. 8 No. 2, Oct., 1999.
- M. Thakur, *Rammanohar Lohiya and the Politics of Anti-Congressism*, Mainstream, March 25, 2000.
- P. Kamat (i) *The Opening Salvo of Goa 's Resistance to Colonial Rule: Protests against The Religious Policy of the Portuguese, 1559-1583*, Quarterly Journal of the Mythic Society, vol. LXXXIX,

- (ii) "Mutiny in the Portuguese Indian Army", Govapuri, July-September 1999, (iii) "Female Eleemosynary Space in the 'Golden' Goan Cityscape: A Case-Study of the Recolhimentos", Purabhilekh-Puratatva, vol. I, no. 1, Jan.-June, 2000 and (iv) Peasantry and the Colonial State in Goa, 1946-1961, Goa and Portugal: History and Devt. eds. C. J. Borges, O. G. Pereira, Hannes Stubbe, Concept Publishing Co., Delhi, 2000, pp. 133-158.
- N. Shyam Bhat, *Trade in Goa during the 19th century with special reference to colonial Kanara*, Goa & Portugal: History & Devt (eds). C. J. Borges, O. G. Pereira, H. Stubbe. Concept Publishing Co. New Delhi, 2000), pp. 55-71.
- U. Bhattacharya, *Structure of Internal Trade & Pol. Authority in mid-Eighteenth Century Bengal*, Society, Culture & Polity in Eastern India, S.C. Padhy and S.K. Panda (eds.) (Berhampur University, 1999), pp. 92-102.
- Nagendra Rao, *Reconstructing the Social History of South Kanara: A Study of Sahyadri Khanda*, Indica, vol. 36, no. 2 Sept., 1999.
- S. M. Noronha, *Problems of Child Labour: A Case Study of Goa*, Dr. M. Koteswara Rao, Exploited Children: **A Blue print for Child Labour Legislation, Kanishka, New Delhi, 2000.**

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

- Pratima Kamat, *Farar Far: Popular Resistance to Colonial Hegemony in Goa, 1510-1961*, Institute Menezes Braganza, 1999.
- Dalbir Singh, Co-editor, *State and Society in Latin America: Challenges of Globalization*, Commonwealth Publisher, New Delhi, 2000.
- Dilip Loundo, The theme of Nostalgia in Latin American Literature, Jadavpur University, 1999.**

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

- S. Vernekar, *Understanding Medical Thought & Practice: an Essay on the Ethics of Informed Consent*.
- H. Nagvenkar, Economics, *Salt & Goan Economy: A study of Goa's Salt Industry and Salt Trade in the 19th and 20th Centuries during Portuguese Rule.*

2.2.9 Any other information:

- Peter R. deSouza was a Visiting Professor at Birkbeek College, London University under the British Council Higher Education Links Programme in March 2000. He made presentations at IDS — Sussex University, Leeds University & Hull University (U.K.).
- Aureliano Fernandes : Conducted Training Programme for Zilla Panchayat Members in collaboration with Goa Institute of Rural Development, Old Goa, 8-13 May, 2000.

2.2 FACULTY OF NATURAL SCIENCES

2.2.0 General Information regarding faculty: (Departments and Degrees)

DEPARTMENT OF CHEMISTRY:(M.Sc., Ph.D.)
DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY: (M.C.A., Ph.D.)
DEPARTMENT OF GEOLOGY: (M. Sc., Ph.D.)

DEPARTMENT OF MATHEMATICS (M.Sc., M.Phil., Ph.D.)
DEPARTMENT OF PHYSICS: (M.Sc. Physics; M.Sc. Electronics, Ph.D.)
UNIVERSITY SCIENCE INSTRUMENTATION CENTRE.

FACULTY BOARD

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

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

The Faculty Board met once during the year.

2.3.1 List of Teaching Staff:
(Name, Qualifications, Designation)
DEPARTMENT OF CHEMISTRY

V.N. KAMAT DALAL, Ph.D., *Professor*
J.S. BUCKLEY, Ph.D, *Professor & Head*
J.K. KIRTANY, Ph.D., *Reader*
B.D. DESAI, PhD, *Reader*
K.S. RANE, Ph.D., *Reader*
J.B. FERNANDES, Ph.D, *Reader*
S.P. KAMAT, PhD, *Reader*
V.P. KAMAT, Ph.D, *Lecturer*
A.V. SALKAR, Ph.D, *Lecturer*
S.G. TILVE, Ph.D, *Lecturer*
B. DAS GUPTA, Ph.D, *Lecturer*
B.R. SRINIVASAN, Ph.D, *Lecturer*
N. CHANDRASHEKHAR, Ph.D, *Lecturer*
R.N. SHIRSAT, PhD, *Lecturer*
V.S. NADKARNI, Ph.D, *Lecturer*
V .M.S. VERENKAR, Ph.D., *Lecturer*
SACHIN KAKODKAR, M.Sc., *Lecturer*

DEPARTMENT OF COMPUTER SCIENCE
TECHNOLOGY

P.R.RAO, PhD, *Reader*
V.V.KAMAT, Ph.D., *Reader & Head*
JYOTI D. PAWAR, M.C.A., *Lecturer*
YMA PINTO, M.C.A., *Lecturer*
RAMDAS N. KARMALI, M.C.A., *Lecturer*
S. BASKAR, M.Sc., *Lecturer*
RAMRAO WAGH, M.C.A. *Lecturer*

DEPARTMENT OF GEOLOGY

A.G. DESSAI, PhD, *Professor & Head*
P.S. RAIKAR, Ph.D, *Reader*
K. MAHENDER, PHD, *Reader*
A.G. CHACHADI, Ph.D, *Sr. Lecturer*
T.A. VISHWANATH, Ph.D, *Sr.Lecturer*
A.A.A.A. V tEGAS, M.Sc., *Lecturer*

2.2.2. Highlights of the research activities:

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

AND The Department has expertise in the areas of Graph Theory and Algorithms, Graphics and Visualization, Web Tools, Databases and Data Mining, Networking and Software Engineering. Work done by Faculty members and reported in Conference and Workshops in these areas

1. Study of lower crystal and mantle nodules in Deccan basalts.
2. Geochemistry of Joida Ultramafic Complex, Uttara Kannada, district Karnataka to understand the resource potential of ultramafic rocks from South India.
3. Statistical modeling and evaluation of mining property from North Goa.
4. Sedimentologic, stratigraphy and 'pale geographic reconstruction of carbonate sequences of Western India. Application of RS-GIS integrated approach in Mining and Environment Geology.
5. Ground water model studies involving sea water intrusions in the coastal aquifers and mining impacts on ground water environment. Investigations on rural drinking water supplies, resource augmentation, water conservation and artificial recharge. Overall ground water study and its impacts on the sustenance of life in the coastal zones of India.

DEPARTMENT OF MATHEMATICS

Y. S. PRAHALAD, Ph.D., *Professor*
A. J. JAYANTHAN, Ph.D., *Reader & Head*
Y. S. VALAULIKAR, M. Phil, *Lecturer*
A. N. MOHAPATRA, Ph.D., *Lecturer*
R. K. PANDA, Ph.D., *Lecturer*

Dr. R. Panda, tried to understand the borderline between existence and non-existence of solutions for certain elliptic equation with critical growth, in a bounded smooth domain. Dr. A. J. Jayanthan, is working on some combinatorial and topological properties of knots, links and braids. Dr. A. N. Mohapatra, worked on Inverse Spectral Theory.

DEPARTMENT OF PHYSICS

P.R. SARODE, Ph.D. *Professor & Head*
A. B. BHATI'ACI-IARYA, Ph.D., *Professor*
J.A.E. DESA, Ph.D, *Reader*
G.M. NAIK, Ph.D, *Reader*
G.R. BHAT, Ph.D., *Reader*

UMA SUBRAMAN IAN, PhD, *Lecturer*
R.B. TANGSALI, PhD, *Lecturer*
R.V. PAI, PhD, *Lecturer*
R. K. KAMAT, M. Phil., *Lecturer* K.R.
PRIOLKAR, PhD, *Lecturer* R.B.
PRABHU, Ph.D, *Visiting Professor*

Highlights of the research activities:

Neutron diffraction studies at low temperature on MnTe-xSex have been undertaken as a part of IUC — DAEF sponsored project. The magnetic structure of MnSe has been solved *using* Reitveld refinement technique and a paper on this work has been communicated to J. Magnetism and Magnetic Materials. Low temperature magnetic and transport properties of MnTe have been investigated and a ferromagnetic like transition coupled with increase in resistivity was observed for the first time around 80K. Detailed investigations are under progress.

In continuation of our superconductivity research, Sr doped Y1-xPrxBa2Cu3O7-8 system has been investigated using EXAFS and IR absorption techniques. It is found that with increasing Sr doping there is a decrease in Cu-O planar bond length as well as sudden shift of apical oxygen towards the CuO2 planes thereby reducing the Pr-O hybridization and restoring the superconductivity.

Under the collaborative programme with Indian Institute of Science, Bangalore and ISIR, Osaka University, Japan, XAFS work on Noble metal — Ceria automobile exhaust catalysts has been carried out at Spring-8 Synchrotron Radiation Facility, Japan. From the analysis of XAFS it has been concluded that M-O-Ce (M = noble metal) type of interactions present in these catalysts are responsible for the high catalytic activity of these materials.

Some preliminary calculations have been made to check on the design of the shielding tunnel to be used at the Dhruva Reactor, B.A.R.C., Mumbai for a neutron beam line serving three neutron spectrometers of the I.U.C.-D.A.E.F.

Additionally, neutron diffraction data have been collected on a group of four rare-earth phosphate glasses viz. lanthanide phosphate glass matrix incorporating Eu, Tb, Er and Ho. X-ray, neutron diffraction and U.V./visible data on these systems had earlier been obtained and a paper published. These measurements constituted the follow-up experiments on these glasses.

A powerful numerical method, one dimensional Density Matrix Renormalization Group (DMRG) has been developed to understand phase transition of Bosonic Hubbard Model in Bethe — Lattice. The Bethe — lattice has been successfully used as a effective instrument for Me periodic and non periodic systems because it often presents a simpler treatment of these systems. Theoretical models based on Bethe — lattice are expected to describe the realistic two and three dimensional systems to some extent. VLSI Design laboratory is being established in the Department as a follow up action of the International Conference, VLSI'99 organized by the Department. CAD environment for this laboratory has already been procured. Purchase of hardware components is in progress. Under this programme, a (CMOS) Compatible Lateral Bipolar Transistor (CLBT) layout has been designed.

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

Service Department.

GAURISH M. NAIK, Ph.D., *Reader & Head*
RAJENDRA S.GAD, M.Sc., *Technical Officer-I*

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

C.W. Burckhardt, Federal Institute of Technology, Lousanne, Switzerland, *Industrial Robots*,
, 22.01.2000.
Henocque, CNRS, France, *Joint Field Work*, May 1999.

M. Widdowson, Open University, U.K.: *Discussion*, November 1999.
 B. Krishan Rao, Univ. of Mysore, *Syllabus Reforms*, February 2000.
 Anilesh Mohari, S. N. Bose Centre for Basic Sciences, Calcutta, *Quantum Dynamical Entropy — I and Quantum Dynamical — II*, 23.10.1999 & 25.10.1999.
 Sanjay Kamat, Lucent Technologies, '*Policy-bases Networking*', 16 July 1999.
 Atul Chitnis, Director Exocore Consulting, '*Linux Computing*', 14 February 2000.
 K.S.R. Krishnaiyya, NIC New Delhi, '*Software Project Management*', 16 Feb. 2000.
 Chandrashekhar Rao, Global Telesystems, '*Evolution of E-Commerce*', 14 Feb. 2000.

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

P. R. Sarode, R. B. Prabhu, K. R. Priolkar and V. N. Kamat Dalai, *Neutron Diffraction and Scattering Studies of antiferromagnetic MnTe 1-xSex*, April 2000, *Inter University Consortium for DAE facilities, Indore* Rs. 75,000.00.
 J. A. E. Desa and G. R. Bhat, *Design of an Optimally Shielded Neutron Beam Path*, April 2000, *Inter University Consortium for DAE facilities, Indore* Rs. 67,000/.,
 P. R. Sarode, K. R. Priolkar, and N. Y. Vasanthacharya, *Design and Construction of Thermoelectric Power Set-up for study of Transition Metal Compounds*, January 2000, *Council for Scientific and Industrial Research New Delhi*, Rs. 7,98,000.00.
 V.V.Kamat and R. Karmali, '*Design of Web-based Examination Tools*', March 1999, Rs. 9.00 lakhs.
 S. G. Tilve (i) *U.G.C. Major Research Project*, Rs. 1,70,280.00 and (ii) *CSIR Project*, Rs. 6,85,400.00
 V. S. Nadkarni, *Atomic Energy Regulatory Board*, Rs. 1,3,77,045.00

2.3.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Theme, Dates, Funding Agency, Name of Department)
IEEE International Conference on Industrial Technology (ICIT), 19-22 January 2000, *IEEE Industrial Electronics Society, USA*, Department of Physics, Goa University and Department of Electrical Engineering IIT, Mumbai. •
One Day Workshop on Industrial Robots, 18 January 2000, *Self-Financing*, Department of Physics.
24th National Symposium on Instrumentation, 02-05 February 2000, *Industrial Houses and Goa University*, USIC and Department of Physics.
Vehicle Instrumentation, 2-5 Feb. 2000, *Instrument Society India*, University Science Instrumentation.

(b) (i) Attended Seminars/Conferences: (Teacher, Theme of Conf., Place, Date, Title of Paper)
 R.B. Prabhu, *Department of Atomic Energy Mumbai*, IGCAR Kalpakkam, 27-31 December 1999, *Neutron Diffraction Study of MnSe*.
 R.K. Kamat, *Instruments Society of India and Goa University*, Goa, 2-5 February 2000, *PC Based Superheated Washwater Systems*.
 K. Mahender, *Jammu University*, Jammu, October 1999, *RS-GIS applications in Sediment logy — A study of selection of sites for water harvesting structures*.
 A.G. Chachadi, Jodhpur, 1999, *Ground water modeling in hard rock terrains*.
 N. Chandrasekhar, *34th International seminar sponsored by DAAD (German Academic Exchange Service)*, University of Karlsruhe, Germany, May 1998 — July 1999.
 V. V. Kamm (i) *19th World Conference on Open Learning and Distance Education*, Vienna, 20-24 June 1999, '*Framework for Educational Resource Planning and Management*'. and (ii) '*Graphics Visualization in Education 99*', Coimbra Portugal, 3-5 July 1999, '*Framework for Development of Course Material for teaching Computer Graphics*'.
 Rajendra Gad, *Microscopy*, Punjab University, 31-1-2000 to 5-2-2000.
 N. Chandrasekhar, *Optical absorption spectra of solvated electrons in various polar media, Workshop on Radiation and Photochemistry (PUWORP-2000)*, University of Pune, 18-20 January 2000.
 K. S. Rane (i) *DAE Solid State Physics Symposium IGCAR, Kalpakkam, India*, Dec. 99, (ii) *Indian Council of Chemist 8th Annual Conf. N. Maharashtra Univ. Jalgaon*, December 99, (iii) *Proceedings of Mines Environment and Mineral Conservation week 99-2000. Indian Bureau of Mines, Goa* and (iv) *Proceedings of Indian Thermal Analysis, Gorakhpur*, Jan.'00.
 V.M. Verenkar (i) *Electric & Magnetic properties of MgFe₂O₄ synthesized from iron ore rejects, DAE-BRNS National symposium on Recent trends in Electro & Magneto ceramics*, Kolhapur, (ii) *Hydrazinate method of synthesis of r-Fe₂O₄ useful in ferrite preparation Part I. Preparation, characterization and decomposition of Iron (II) carboxylato-hydrazinates, National seminar on Magnetism and Magnetic Materials, Cochin 1999*, (iii) *Hydrazinate method of synthesis of r-Fe₂O₄ useful in ferrite preparation Part II: Preparation, characterization and decomposition of Iron Oxyhydroxides and hydrazinated Iron*

- Oxyhydroxides*, National seminar on Magnetism and Magnetic Materials, Cochin India, 1999, (iv) *The use & scope of low grade iron ore, mines environment and mineral conservation*, Goa, 2000 and (v) *Synthesis characterization and thermal analysis of ferrous malato-hydrazinate*, Twelfth National Symposium and Workshop on Thermal Analysis, Gorakhpur, India 2000.
- A.V. Salkar, *SCR of NOx with ammonia over Mn-25M5*, Natl. workshop on catalysis, ICT, Hyderabad, 7-8 Jan. 2000.
- B. R. Srinivasan (i) Hexacoordinate Nickel-Thiometalate Complexes: Proc. of conference on catalysis and catalytic processing, S. Africa, 1999, (ii) Ligational Behaviour of (MS4) 2- (M=MoW) Ligands towards Ni (II) in the presence of Aliphatic Diamines, Proc. On Modern Trends in Inorganics Chemistry (MTIC), LLSc., Bangalore, 2000 and (iii) Synthesis, Spectral Characterization and Reactivity Studies of B-Ketoester Complexes of Copper (II) Proc. On Second Nat. Symp. In Chemistry I.L.C.T., Hyderabad, 2000.
- J. B. Fernandes (i) Electro catalytic Activity of Mn-Y zeolite catalysts in Silicotungstic Acid (with Trupti Sabnis, and Purnakala Samant), November 1999 and (ii) Pt — M/Y (M=Ru, Sn, Pd) as an active catalyst for electro oxidation of methanol (with purnakala Samant) presented at the Proceedings of Catalysis society of South Africa, Rustenberg, October 1999.
- (b) (ii) Attended Workshops: (Name of Teacher, Theme of Workshop, Place, Date)
- P. R. Sarode, J.A.E. Desa, R.K. Kamat and G.R. Bhat, *Industrial Robots*, International Centre, Goa, 18.01.2000.
- N. Chandrasekhar, 34th International Seminar sponsored by DAAD German Academic Exchange Service, University of Karlsruhe Germany, May 1998 — July 1999.
- V. V. Kamat, 'ICC International Conference on Internet and Education', Chennai, 16-17 Dec'99.
- R. Wagh, *Geographical Information Systems*, Remote Sensing Centre, Dehradun, 3 Jan. -10 March '00.
- Ramdas Karmali, Yma Pinto, Jyoti Pawar, and S. Baskar, 'Unix Network and System Management', ACI Goa University, 15-20 February 2000.
- 2.3.6 (a) Publications (Research Articles): (Name of Teacher, Title, Journal, Volume, Month/Year)
- A. Chhikara, K. Priolkar, P. Sarode, R. Prabhu & A. Narlikar, *Superconductivity Suppression in Er - xPrxBa2Cu4O8: An X-ray Absorption ,Spectroscopic Study*, J.Phys: Condens Matter, UK, 11/L229-L232, 1999.
- A. Joseph, Ehrlich Desa, Elgar Desa, David Smith, V.B. Peshwe, Vijaykumar and J.A.E. Desa, *Evaluation of pressure transducer under turbid natural waters*, J. Atoms, Ocean, Tech, 16/1150-1155, 1999.
- P.K. Choudhury, Sanchita Dey and Neeta Mehta, *On the Wavelength Filtering Aspects of Periodic Multilayered Waveguides*, Optik, 110/537-541, 1999.
- A.G. Shikerkar, J.A.E. Desa, P.S.R. Krishna and R. Chitra, *Diffraction Studies of Rare-Earth Phosphate Glasses*, J.Non Cryst.Solids, North-Holland, 270/234-246, 2000.
- G.M. Naik, R.K. Kamat, G. G. Tengshe and P.D. Amonkar, *PC Based Superheated Washwater Systems*, Intl.J. Sugar, 102/152-155, 2000.
- A. Joseph, J.A.E. Desa, P. Foden, K. Taylor, J.McKeown and Ehrlich Desa, *Evaluation and Performance Enhancement of a Pressure Transducer under Flows, Waves and a Combination of Flows and Waves*, J.Atoms.Ocean.Tech., 17/357-365, 2000.
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- A.G. Chachadi (i) *Damage control measures for water resources management in mining areas of Goa*, IBM Souvenir, 1999, (ii) *Impact of groundwater modernisation at the cost of rural drinking water supplies in India*, Proc. Hydrogeology of Precambrian terrains and hard rock areas, 1997, Dharwad, 1999 and (iii) *Groundwater modelling in hard rock terrains*, Proc. Of Brainstg session, Jodhpur, 1999.
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- R. N. Shirsat, *Electrostatics of Atoms & Molecules (S. R. Gadre & R.N. Shirsat)*, Universities Press (E) Ltd., 2000

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- S. G. Tilve (i) *A novel and convenient synthesis of 3, 5-Diphenylisoxazoles*, *Synthetic commu* 29 (17), (1999) 3017 and (ii) *Synthesis of 2-acyl-2-benzoylindoles*, J. Chem Res. (S), 1, (2000), 8.
- V. S. Nadkarni, *A correlation of the thickness of the nitrocellulose films prepared using a spinning disk technique with the observable properties of nitrocellulose solution*, Indian J. Chemistry, 38A, (1999), 209-218.
- J. B. Fernandes (i) *Synthesis and catalytic activity of ZnO catalysts*, Stud. Surf. Sc. Catal, 113 (1999) 507-512 (Elsevier), (ii) *Catalytic Activity of Cu-Y catalyst*, Stud. Surf. Sc. Catal, 113 (1999) 729-735 (Elsevier), (iii) *Temperature Programmed Desorption studies on a novel ZnO Catalyst* Thermochim Acta 332 (1999) 21-25, (iv) *Nickel modified manganese oxides as active electrocatalysts for oxidation in methanol fuel cells*, Journal of Power sources Vol 179 (1999) M-118 and (v) *Ammonolysis of ethanol on pure and zinc oxide modified HZSM-5 Zeolites*, Applied Catalysis (A): General 5179 (2000) 1-5.
- A. V. Salker (i) *Synthesis characterization and catalytic CO oxidation studies over Ni_{1-x}Cu_xMn₂O₄*, Indian J. Chem A.38, (1999) 286, (ii) *Nitric Oxide Reduction over Ruthenium Supported on Silica and Alumina*, Recent Trends in catalysis (Norosa Publishing House, New Delhi) (1999) 629 and (iii) *Catalytic behaviour of metal based ZSM-5 catalysts for NO_x reduction with NH₃ in dry and humid conditions*, Applied Catalysis A: 203 (2000) 221-229.
- B. R. Srinivasan, *Synthesis and Characterization of sulfur Bridged Heterobimetallic Complexes*, Res. J. chem. Environ., 3(4) (1999) 29.
- K. S. Rane (i) V.M.S. Verenkar, *Hydrazine method of synthesis of r-Fe₂O₃ useful in ferrites preparation Part IV: Preparation and characterization of magnesium ferrite, MgFe₂O₄ from r-Fe₂O₃ obtained from hydrazinated iron oxyhydroxides and iron (ii) carboxylate – hydrazinates*, J. Mater. Sci. Mater. in Electronics, 10 (1999) 133-140 and (ii) V.M.S. Verenkar, *Initial susceptibility studies on cu-mg-zn ferrites*, Mater. Chem. Phys. 59(1) (1999) 57-62.
- K. S. Rane, V. M. S. Verenkar, *Hydrazine method of synthesis of r-Fe₂O₃ useful in ferrite preparation. Part-IH-Study of hydrogen iron oxide phase in r-Fe₂O₃*, J. Mater.Sc.Mater in Electronics, 10 (1999) 121-132.

2.3.7 Consultancy work undertaken: (Name of teacher, Nature of Consultancy, Name of the Sponsorer, Duration of Consultancy, Amount)

A. B. Bhattacharya, *Pacemaker: ASIC Design*, Semiconductor Complex Ltd. Govt. of India, 2000-2001, Rs. 1,00,000.

A. G. Chachadi, A.G. Dessai, K. Mahender, *Comprehensive Groundwater Evaluation Studies at Kudne Mine, Bicholim, Goa, MIS. V. M. Salgaonkar & Bros.*, 12 months, Rs. 2.4 lakhs.

V. V. Kamat (i) *Phil Systems, a private company dealing with the development of Imaging Software*, December 1999, Rs. 1.00 lakh.

(ii) *Information Technology Centre dealing with IT training for software professionals*, December 1999, Rs. 1.00 lakh.

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

A. G. Shikerkar, Physics, *Structural Studies of Borosilicate and Phosphate Glasses by X-ray and Neutron Diffraction*

Sadanand Shivnath Hinde, *"Electroless Nickel Plating on Aluminium"*, July 1999.

Purnakala V. Samant, *"Catalysts for Electra-Oxidation of Methanol"*, May 2000.

2.3.9 Any other information:

1. A provisional Indian patent on Novel Rare-Earth Phosphate Glasses has been filed at the Mumbai Patent Office in Dec. 1999.
2. Under an existing memorandum of understanding between Goa University and University of Aveiro, Portugal, Prof. S. K. Mendiratta of the latter University was appointed and visited Goa University in order to conduct the Ph.D. examination as an external examiner.
3. A. J. Jayanthan and R. Panda participated as resource persons in the Mathematics Training and Talent Search Programme organised by National Board of Higher Mathematics, (D.A.E, Govt. of India). It was held in Mysore during 22 May to 17th June, 2000.
4. R. Panda also visited Indian Institution of Science, Bangalore, during November 1, 1999 to November 22, 1999 under IISC-TIFR short term visitors programme.

5. Y.S. Prahalad visited the Centre for Ocean Land Atmospheric Studies, Maryland, between 1-30.11.99.
6. R. N. Shirsat: Post Doctoral Fellow at Jackson State University, U.S.A. (April'00-March' 01).
7. N. Chandrasekhar: Visiting Scientist, University of Karlsruhe, Germany (May-July 2000).
8. B. R. Srinivasan: SERC — DST Fellowship at I.I.T. Kanpur (May-July 2000).

2.4 FACULTY OF LIFE SCIENCES & ENVIRONMENT

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

DEPARTMENT OF BOTANY: (M. Sc., Ph.D.)

DEPARTMENT OF MARINE SCIENCE AND MARINE BIOTECHNOLOGY: (M.Sc., Ph.D.)

DEPARTMENT OF MICROBIOLOGY: (M. Sc., Ph.D.)

DEPARTMENT OF ZOOLOGY: (M.Sc., Ph.D.)

The faculty also offers an M. Phil in Environmental Sciences

Faculty Board

U. M. X. Sangodkar, *Chairman*

S. Mavinkurve, *Member*

II I lihat, *Member*

G Nayak, *Member*

P. V. Desai, *Member*

Joe D'Souza, *Member*

C. L. Rodrigues, *Member*

A. B. Shanbhag, *Member*

I. Furtado, *Member*

S. Nazareth, *Member*

The Faculty Board met once during the year.

2.4.1 List of Teaching Staff:

(Name, Qualifications, *Designation*)

DEPARTMENT OF BOTANY -

D.J. BHAT, Ph.D. *Professor & Head*

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

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

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

V.U. ICERKAR, Ph.D, *Sr. Lecturer*

S.KRISHNAN, Ph.D. *Lecturer*

2.4.2. Highlights of the research activities:

Engaged in researches in the field of Plant Arid Fungus taxonomy, ecology and biodiversity in the Western Ghats area. This embodies higher plants, algae, bryophytes and fungi. Also work is being carried out on mycorrhizae in revegetation of mining area, medicinal plants and biology of rice. In addition, the dept. is developing a fungus culture collection facility.

DEPARTMENT OF MARINE SCIENCE & BIOTECHNOLOGY S. UPADHYAY, Ph.D, *Sr. Lecturer*

DEPARTMENT OF BOTANY -

S.C. GHADI, Ph.D, *Sr. Lecturer*

S.S. KERKAR, M.Sc, *Lecturer*

U.M.X. SANGODKAR, Ph.D, *Professor,*

U. BARROS, Ph.D, *Sr.Lecturer*

Coordinator Programme & Head

U.D. MURALEEDHARAN, Ph.D, *Sr.Lecturer*

G.N.NAYAK, Ph.D, *Professor*

V.M. MATTA, Ph.D, *Lecturer*

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

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

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

AFTAB CAN, M.Sc, *Lecturer.*

Highlights of the research activities

MARINE SCIENCE SECTION

The research areas are: Taxonomy of corals & Biodiversity. Remote Sensing through radioactive transfer mode. Biogeochemical cycling of environmental sensitive elements in the near shore regions and Behaviour of aluminium & other trace metals in estuaries. Aquaculture & Fisheries.

MARINE BIOTECHNOLOGY SECTION

Study of agarases of special characteristics and of commercial importance from deep-sea bacteria. Biotechnological degradation of the oil spill and tar ball degradation by means of selective marine microbial consortia developed for Marine Pollution Control. Establishment of methods to study risk and its assessment due to recombinant DNA in controlled marine conditions. Processes for preparation of proteases and xylanases from marine microorganisms. Important toxins from marine organisms of commercial importance. Validation of faculties for effluent treatment based on marine organisms. Screening and characterization of algolytic bacteria. Alkaloids of medicinal value by plant tissue culture.

DEPARTMENT OF MICROBIOLOGY

S. MAVINKURVE, Ph.D., *Professor & Head*
J. D'SOUZA, Ph.D., *Reader*
S. K. DUBEY, Ph.D., *Reader*
S. BHOSLE, Ph.D., *Reader*

I. FURTADO, Ph.D., *Reader*
S. NAZARETH, Ph.D., *Sr. Lecturer*
S. GARG, Ph.D., *Lecturer*

Highlights of the research activities

The Staff members in the Department are actively involved in the following research areas with funded and non-funded projects: (i) Degradation of aromatic compounds by *Pseudomonas mendocina* p2d. (ii) Screening of microorganisms from Coastal marine and estuarine habitats; study of their bioactive metabolites. (iii) Studies on bacteria from mangrove ecosystem producing polyhydroxy butyrates. (iv) Uptake of arsenic and cadmium by halophilic archae. (v) Studies on adaptation of halobacterium strain RI to fluctuating physicochemical condition and heavy metal ions. (vi) Evaluation of the response of extremely halophilic microorganisms from estuaries and continental shelf sediments to hydrocarbons. (vii) Biological characterisation of marine bioluminescent bacteria under heavy metal stress and development of bioluminescent microbial sensor for environmental monitoring of cadmium. (viii) Biological characterisation of organotin resistant bacteria from marine environment of Goa. (ix) Use of *Fusarium solani* for Metal biosorption in control of metal pollution. (x) Quality assurance of shrimps from Goa. (xi) Isolation of proteinase producing microorganisms from salt pans of Goa and partial characterization of selected isolates. (xii) Application of response surface methodology in predicting depending of extracellular proteolytic activity of *Streptomyces* sp. on medium components.

DEPARTMENT OF ZOOLOGY

P. V. DESAI, Ph.D, BEd., *Professor & Head*
A. B. SHANBHAG, Ph.D, *Reader*
S. K. SHYAMA, Ph.D, *Sr. Lecturer*

I. K. PAI, Ph.D, *Sr. Lecturer*
R. Roy, Ph.D., *Sr. Lecturer*

Highlights of the research activities

Study of physico-chemical and biological characteristics of fresh water bodies in Goa, Zooplankton diversity with special reference to Cope-pods in Adaman Sea, application of histology and electron microscopy techniques for planktonic ecophysiology, management of pesticide crisis, fatty acid composition of the ingested food, search for marine bacteria as source of fatty acids, study of congenital malformation in Human population of Goa, genetic studies of breast cancer in Goa, electrophysiology of spinal cord under pesticide stress, PAF induced neurodegeneration of hippocampal cells, gill cell culture of *Meretrix costa*, study of wetland birds and their ecology, nephrotoxicity of pesticides.

2.4.3 List of visiting scholars: (Name of Scholar, Institutional Affiliation, *Title of Lecture*, Date)
Valentina Dias Ferrao, Former Scientist, WHO, Geneva, *Overview of basic mechanism of HIV infection and recent development*, 19.08.1999.

2.4.4 Sponsored Research Projects sanctioned in 1999-2000 (Name of Investigator/s, *Topic*, Date of Sanction, *Funding Agency*, Amount)

D.J. Bhat (i) All India coordinated project on *Taxonomy of fungi*, 14¹¹' Dec. 1999 (5 years), *MOENF New Delhi*, 2.05/Yr. (in lakh) and (ii) *Plant and Fungus Biodiversity, Conservation and Utilization Efforts for Western Ghats, Goa Region*, 20¹¹' March 2000 (3 years), *Planning Commission*, 10.00/Yr. (in lakh).

M. K. Janarthanam, *Biodiversity characterization at Landscape level using RS & GIS*, Sept. 1999. *Dept. of Space*, 2.09 (in lakh).

S. Krishnan, *Histochemical and Biochemical analysis of Aroma (2-acetyl-I -pyroline and other related compounds) in Basmati and Scented Rice varieties*, 2000-2003 (3 years), *Council of Scientific and Industrial Research, New Delhi*, 14.5 (in lakh).

U. Muraleedharan, *Biological Productivity characteristics in the Bay of Bengal (Sub Project 9 of National Multi Institutional Project)*, 2000, *DOD, Delhi*, Rs. 11.97 lakhs.

S. Bhosle, *Biodiversity of adhered extremophilic microorganism from mangrove swamps in Goa*, March 2000, *Ministry of Environment and Forest, New Delhi*, Rs. 4,56,780/-.

S. Garg, *Isolation and characterisation of the most stable proteinase producing microorganisms from marine ecosystem*, December 1999, *Goa University (MRP) UGC*, Rs. 50,000/-.

S. Mavinkurve, I. Furtado, S. Bhosle, *Microbial diversity studies of Marine ecosystem alkalophilic microorganisms*, 28.12.1999, DBT, Delhi, Rs. 15,13,100.00.

2.4.5 Seminars/Conferences/Workshops, etc.

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

Workshop on 'microphotography' at Aveiro University, Portugal Oct. 22, 1999, Dept. of Zoology.

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

D. J. Bhat, 26th Annual Meeting of the Mycological Society of India, 20-22 December 1999, *Evaluation of techniques for isolation of fungi*.

P.K. Sharma (i) University of Hyderabad, Hyderabad, 11-14 Dec.1999, *Xanthophyll cycle and photo production: Role of D77', ABA & Ascorbic acid* and (ii) Pune University, 3-8 Jan. 2000, *Application of immobilized photosynthetic system in biotechnology*.

V.U. Kerkar, *Diversity and Biotechnology CSMCRI*, Bhavnagar Gujarat, 12-14 September 2000, *Diversity of calcareous algae at the submerged bank of India*.

Joanita Coelho, N. Fernandes, J. Rodrigues, C.U.Rivonkar, S.C. Ghadi, U.M.X. Sangodkar, CIFE, Mumbai, 4-5 March 2000, *Combating oil spills in Oceans: A Biotechnological Approach*.

R. Roy, *Environmental management system-emerging trends*, Betul Goa, July 1999.

I. K. Pai (i) *Zooplankton diversity with special reference to copepods in Andaman Sea*, II Conference Biodiversity, Aveiro, Portugal, 2-4 Dec. 1999, (ii) *Histology an additional tool for understanding biodiversity*, IBID, 2-4 Dec. 1999, (iii) *Ecological status of Andaman sea: Past, present & future*, Seminar on Ecology, Portugal, 1999 and (iv) *Zooplankton: A novel test system for toxicity studies*. XXV EMSI Conference on Envntl.Mutagenesis: Challenges in new Millenium, Chennai, March 2000.

S. K. Shyam, *Pedigree analysis of breast cancer patients in Goa*, EMSI symposium on: advances in Envntl. Mutagenesis BARC, Bombay, 1999.

P. V. Desai, *Neurophysiological approach in adaptations of animals to marine environment*, Seminar on "Perspectives of integrated coastal research" Barn University, Bhatya, Oct. 23 — 24, 1999.

I. Furtado (i) Institute of Engineers and Scientists Japan "International Conference on Science and Technology for Global Ecology", Chiba, Japan, 24 — 27 July 1999, *Cyanobacteria for remediation of reject soils and tailings of iron ore mines of Goa* and (ii) International Symposia on "High Technology towards Next Century" Tokai University, Japan, 11-12 Dec.1999, *Studies on growth of halophilic archaeobacteria under restricted conditions*.

S. Mavinkurve, Department of Zoology, Goa University, Goa, 11th February 2000, "Recombinant DNA Technology in clinical diagnosis"

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

V.U. Kerkar, *Training & capacity building on coastal biodiversity (West Coast)*, MO, Goa, 24-28 July'00.

S. Krishnan, *Transgenic Rice: Production and Development with special reference to Sheath Blight and Stem Borer Resistance*, International Rice Research Institute, Philippines, 11-29 Oct., 1999.

V. M. Matta, *Remote Sensing application to Ocean studies*, NIO, Goa, 21 February — 10 March 2000.

U. M. X. Sangodkar, *Conference on Fisheries Biotechnology*, CIFE, Mumbai, 4-5 March 2000.

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

Miriam Jacob and D. J. Bhat (i) *Two new endophytic conidial fungi from India*, *Gryptogamie Mycologie*, 21(2): 81-88, 2000 and (ii) *Diversity and abundance of microfungi on decaying leaf-litter of ficus benghalensis Linn*, *Ecology of Fungi* (Ed.), pp. 33-38, 2000.

Sundaram, R.N.S. and D.J. Bhat, *Effect of carbohydrate enrichment on the biodegradation of lignicellulosic wastes with Pleurotus florida as animal feed*, *Ecology of Fungi* (Ed.), pp.103-108, 2000.

P. K. Sharma, *Changes in Chlorophyll fluorescence membrane lipids, pigments and plant hormones in senescent leaves of Corrisa toral*, *J.Plant Biol*, 27: 2000.

M. K. Janarthnam, *Welipu' of van Rheede*, *Carnivorous Plant Newsletter*, 28(2): 44-46, 1999.

B. F. Rodrigues, *Vam association in seedlings of some plants species growing in iron ore mine spoils in Goa (India)*, *Indian Journal of Forestry*, 22 (1&2):136-140, 1999.

S. Krishnan, P. Samson, U. Ravivhndran, D. Narasimhan & P. Dayanandan, *Photosynthesis of Indian grasses and their potential use in identification*, *Botanical Journal of Linnean Society*, 132:241-252, 2000.

- S. Krishnan, P. Samson, A.I. Ebenezer, P. Dayanandan, *Structural and chemical changes in developing and mature Rice Grains*, Medoryzae, 7:5, 1999.
- Ashwani Kumar, Kulvir Sra, U.M.X. Sangodkar, V.P. Sharma, *Advances in the bio-control of mosquito vectors utilizing Bacillus Sphecticus and B. Thuringiensis var. israelensis*, Proc. Of Nath Acad of Sciences (India) vol. LXV, 1-20, 2000.
- I. K. Pai, *Zooplankton diversity of Andaman Sea*, In Recent trends in Zoology, Daya Publ. Delhi, 2000.
- I. K. Pai, *Management of pesticide caused crisis in Sericulture*, Indian Silk, 39(5): 13-14.
- R. Roy, *Fatty acid composition of ingested food in cold adapted freshwater fish*, Fish Physiol. Biochem. 20(1).
- S. Bhosle, *Development of a bacterial consortium for Coir retting*, J. of Science and Industrial Research, 59, 2000.
- O.S. Fernandes and S. W. Nazareth, *Studies on lead sorption by Fusarium solani*, Pollution Research, 18(3): 211-216, 1999.
- M. Kowshik and S. Nazareth, *Biosorption of metals by Fusarium solani*, Asian Journal of Microbiology, Biotechnology and Environmental Sciences, I, (1-2): 57-61, 2000.
- S. Nazareth and B. Koshy, *Antimicrobial activity of pigment from Fusarium solani*, Proceedings of International Symposium on "Ecology of Fungi" International Mycological Association .Committee for Asia. In: Bhat and Raghukumar (eds): Ecology of Fungi, Goa University, Goa, 68-73, 2000.
- S. Mavinkurve, S. Royan, C. Parulekar, *Exopolysaccharide of Pseudomonas mendocina P2d*, Letters in Applied Microbiology, 29, 342-346, 1999.

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

- D. J. Bhat and E. Raghukumar, *Ecology of Fungi, (Edited)*, Goa University, 2000.
- C. Raghukumar and Usha D. Muraleedharan, 'A process for production of Xylane-degrading enzymes'. Indian Patent No. NF 30/2000, 31.3.2000.

2.4.8 (b) Ph.D. degrees conferred during the year: (Name of Candidate, Subject, Title of the thesis)
Sangeeta Sonak, Microbiology, "Studies on marine fouling bacteria", Guide Dr. N. B. Bhosle, N.I.O.

2.4.9 Any other information:

- D. J. Bhat: (i) Awarded the 'Shome Memorial Award for the year 2000' by the Mycological Society of India during its 26th Annual Meeting held at Gujarat, during 20-22 Dec. 99 and (ii) Member, Board of Studies, Dept. of Applied Botany, Mysore University, Mysore
- I. K. Pai: Fundacao Oriente awarded short term scholarship to work at Aveiro University, Portugal (Sept. - Dec. 1999).
- I. Furtado: Visited and worked on Bacterial Biosonic Molecular mechanisms of bacterial growth under stress conditions with Prof. M. Matsukashi of Tokyo and Tokai University — Japan from July to Dec.1999, Under Travel Grant from UGC (Delhi).

2.4.10 (i) RESEARCH AND DEVELOPMENT AND RESOURCES MOBILISATION CELL: Over 123 Research and Development Projects and Consultancies are handled by the faculty members of Goa University funded by various Organisations such as Council of Scientific and Industrial Research (CSIR), Department of Science & Technology (DST), University Grants Commission (UGC), Department of Ocean Development (DOD), Atomic Energy Regulatory Board (AERB), Ministry of External Affairs (MEA), German Organization for Technical Co-operation for Research (GOTCR), Department of Biotechnology (DBT), Goa State Council for Science & Technology (GSCST), Rajiv Gandhi Drinking National Water Mission Mord (RGNDWM), Department of Environment and Forest Wild Life (DOEF), Space Application Centre (SAC), Indian Council of Agricultural Research (ICAR), Indian Council of Medical Research (ICMR), and other Public Foundations of which 31 are Ongoing and are at various stages of completion amounting to Rs. 2,67,64,867.00.

In the year 2000 alone 9 Projects had been sanctioned to the Departments of Zoology, Botany, Physics, Microbiology, MCA and Biotechnology, of which two are Consultancies. The total grants in this year was Rs.43, 04,530.00 funded by GSCST, MOEnF, CSIR, DOEn, PCYB.

The R.D.R.M. Cell established an Intellectual Property Rights Unit to facilitate students and staff of the University to file patents on their innovative research/development output. Three patents were filed during the year (Chemistry: 2; Physics: 1).

2.4.10 (ii) HUMAN RESOURCE DEVELOPMENT CENTRE (HRD): Under the auspices of HRDC, from August 1999, Orientation Courses for the official of Telecommunication Department were held. Each course was of three days' duration. Eleven such courses were held for the clerical staff and 12 for the

technical staff. These courses deal with 'Behavioural Aspects'. The key resource persons were Dr. R. V. Sarjotishi, Dr. K.S. Rao, Dr. F. A. Fernandes, Mrs. Monica Aurora, Prof. L. J. Dennis, Dr. D.A. Hegde, Adv. Dhauikar. The clerical staff were also given training in Computer Applications in Telecommunications. Two such courses of three days' duration were held. Mr. Ramrao Wagh, faculty from Computer Science Department of the University was the main resource person.

2.4.10 (iii) VIRTUAL INSTITUTE FOR TRAINING (VIT): Virtual Institute for training (VIT) is a registered Society, established to supplement the activities of Goa University in Education, Research and Training in the field of Information Technology. The Government of Goa and Goa University have supported the establishment of this Institute. It functions in close co-operation with the Department of Computer Science and Technology, Goa University. The VIT has signed MoU with the National Centre for Software Technology (NCST) Mumbai under which, the Post Graduate Diploma in Software Technology PGDST course of NCST to be started at VIT from June, 2000 in order to build up and mobilize high quality man power in Information Technology with an intake of 40.

2.4.10 (iv) VERY LARGE SCALE INTEGRATION (VLSI) DESIGN & EDUCATION PROGRAMME: Very Large Scale Integration is the highest form of technology, which enables realization of not only devices and circuits but the entire system on Silicon (SOC). The University has introduced Very Large Scale Integration (VLSI) design programme at the Master's and research level to create specialized manpower and expertise envisaging that it is destined to play a major part in Information Technology revolution. The programme is presently a part of Electronics Program under Physics Department but has an active interaction with Computer Science department as an interdisciplinary programme.

As a part of the programme an Integrated VLSI design learning Activity is initiated creating Technology, Device and Circuit Simulation environment with dedicated software. The learning environment acquaints the students to various Electronics Design Automation (EDA) tools which creates a virtual simulation environment. The tools are a mixed bag of freewares and professional softwares.

The research effort focuses on Low Power Mixed Signal Design with special applications to biomedical applications such as Hearing Aids, Pacemaker, Biomedical Telemetry system, data acquisition. The research has built-in component of fundamental investigations on scaling of MOS devices, analog and digital building blocks. The programme interacts with a number of institutions involved in VLSI research and teaching.

2.4.10 (v) CONVENTIONS AND EXPOSITIONS-GOIA UNIVERSITY (CONVEX-UNIGOIA): This Society has been established in the Goa University Campus and registered under Registration Act 1860. The main aim of the society is to undertake planning and organizing in a selective and time-bound manner, national and international conferences, seminars, workshops, courses, expositions and other related events in the areas of interest to Goa University including its departments, affiliated colleges, recognized institutions etc. International Conferences conducted: International Conference on Industrial Technology, sponsored by IEEE Industrial Electronics, USA during January 19-22, 2000. This conference has jointly been organized by the Department of Physics, Goa University and Department of Electrical Engineering, Indian Institute of Technology, Mumbai.

2.4.10 (vi) REMOTE SENSING LABORATORY (RSL): A Remote Sensing Laboratory with the financial assistance from Indian Space Research Organization (ISRO) has been established. The facilities of the lab include both hardware and software. The hardware includes a server and four nodes while the software are image-processing packages such as ENVI and ERDAS Imagine. In addition, conventional equipment such as mirror stereoscopes, pocket stereoscopes and light tables have also been procured. This IA oratory will cater to the needs of providing hands on training to students who opt for interdisciplinary elective course on remote sensing and research.

2.4.10 (vii) OCEAN SCIENCE AND TECHNOLOGY CELL (MARINE MICROBIOLOGY): Introduction: In January 1998, Department of Ocean Development identified the Goa University for formation of Ocean Science and Technology Cell (OSTC) in the field of Marine Microbiology. During the period under report following activities were held: Workshops: August 25 1999: Presentation of the short listed project proposals. Following two projects have been accepted and recommended by the Expert Committee.

Kathiresan K., CAS in Marine Biology, Annamalai University, Tamil Nadu.

: Agricultural fungicide from Marine Actinomycetes,

K. Indrani, College of Fisheries, Mangalore 575 002.

: Viruses of marine shrimp along south coast west coast of India

Management Board Meetings: Sixth Management Board Meeting of OSTC was held on August 24, 1999.

Meets of the Research Coordinator: Meeting of the Research Coordinators was held on May 6, 1999 at NIOT, Chennai under the Chairmanship of Secretary, DOD, Dr. A.E. Muthunayagam.

News Letter: News Letter of OSTC was issued in July 1999.

2.4.10 (viii) ADVANCED CENTRE FOR INFORMATICS (ACT)

A. Training Programmes

1. The Centre conducted a 5 days' course titled "Open Source for Corporates — Linux 2000" in October 1999. This self-financed course was attended by more than 25 EDP managers and developers from all major industrial houses in Goa and neighbouring regions. Resource persons for the course included IT leaders from Bangalore, Delhi and faculty of the Indian Institute of Science, Bangalore.
2. This Course was followed up by an advanced course aimed at Unix System Managers and Integrators titled "Linux System and Network Management" in February 2000. This course too was attended by more than 25 system administrators from Industry and the National Institute of Oceanography, Goa.
3. The Centre organized a one day programme aimed at teachers of all Departments of our University. The course included training for simple administration of Department connectivity to the campus wide Fiber backbone.

B. Development Programmes

1. The Centre supported the development of a Report generator for the PostgreSQL Relational Database Manager. This project was duly evaluated on successful completion.
2. The Centre also supported the development of a comprehensive database of Fungus Cultures. This collection of the Department of Botany, is now digitized and the project is complete.
3. The Centre supported the development of an applicatic a designed for Activities. Stock and Inventory Control for the Department of Agriculture, Government of Goa.

2.5 FACULTY OF MANAGEMENT STUDIES AND FACULTY OF COMMERCE

2.5.0 General Information regarding faculty: (Departments and Degrees)

DEPARTMENT OF MANAGEMENT STUDIES: (MBA, Ph.D.)

DEPARTMENT OF COMMERCE: (M. Corn., M. Phil., Ph.D.)

Faculty Board

A. Sreekumar, Chairman

Dilip Kare, Member

B. Ramesh, Member

A. G. Balasubramanian, Member

N. Mekoth, Member

Satish Kumar, Member

M. S. Daynanand, Member

K. B. Subhas, Member

The Faculty Board met twice during the year.

2.5.1 List of Teaching Staff:

(Name, Qualifications, *Designation*)

DEPARTMENT OF MANAGEMENT STUDIES

A.G. B ALASUBRAMANIAN, Fellow of Illvf, Reader & Head

A. SREEKUMAR, Fellow of IIM, *Dean & Professor*

KARE DILIP D. Ph.D, *Professor*

NANDAKUMAR MEKOTH, Ph.D., *Reader*

SATISHKUMAR, Ph.D, *Lecturer*

M.S. DAYANAND, MBA, *Lecturer*

KSHAMA FERNANDES, MMS, *Lecturer*

DEPARTMENT OF COMMERCE

B.RAMESH, Ph.D. *Professor & Head*

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

GUNTUR ANJANA DEVI RAW, M.Phil., *Sr.Lecturer*

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

RAJENDRA PRASAD, MBA., *Lecturer*

2.5.2. Highlights of the research activities

The Department is actively concentrating to develop research activities through its contribution to the Tourism Study Group. Research proposals are under preparation and some have been submitted to funding agencies. Presently, five candidates are registered formally for their Ph.D.

Doctoral research work undertaken in the Department by all staff members include the areas of Mutual Funds, Venture Capital, Investor Production, Stock Market Trading, Primary and Secondary Capital Market.

2.5.5 Seminars/Conferences/Workshops, etc.: (a) Organized: (*Theme, Dates, Funding Agency, Dept.*)
111th Small Industries Management Assistants Programme, April-July '00, SIDBI, Dept of Commerce.

(c) (i) Attended Seminars/Conferences: (*Teacher, Theme of Conf, Place, Date, Title of Paper*)

K. Fernandes (i) *Asian Masters of Indexing Conf*, Singapore, Sept.'99, *Feasibility of Indexing in Developing Markets*, (ii) *Asian Masters of Indexing Conference*, Singapore, Sept.'99, *Enhanced Indexing: Does it work* (iii) *3rd Capital Market Research Conference*, UTI Capital Market, Mumbai, Dec.'99, *Relevance of Index Funds for Pension investments in Equity*.

B. Ramesh and Y. V. Reddy, *All India Commerce Conference Marathwada University, Aurangabad, 23-25 Oct.'00, Activity Based Costing in Printing Industry—Profitability Enhancement through Realistic Pricing*.

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

N. Mekoth, *A Modal Mix between Mini & Large Buses*, Indian Journal of Transport Management, Vol. 24 (1) pp 15-21, Jan.'00.

A. G. Balasubramanian, *Review: Human Resource Devt by P.C. Tripathi*, Review Projector (India), Vol. 2 (2) pp.6-7, April-July 1999.

B. Ramesh & Y. V. Reddy, *Activity Based Costing in Printing Industry — Profitability Enhancement through Realistic Pricing*, The Indian Journal of Commerce, 52, October — December 1999

STUDENTS ENROLMENT:

RESULTS:

Faculty	M.A./M.Sc./ <u>M.Com.</u> /M.C.A. /MBA			M.Phil		Ph.D./ Diploma	Total
	Pt. I /Sem. Sem.III	Pt II/ Sem.	Sem. V	Pt. I	Pt. II		
Languages	70	63				29	162
Literature	84	32			01	28	145
Social Sciences	81	52	28			11	172
Natural Sciences	61	30		03		30	124
Life Sciences & Environment	32	28				01	61
Commerce	16	16					32
Management	63					02	65
Total	407	221	28	03	01	101	761

MA.	M.Sc.	<u>M.Com.</u>	MBA	M.C.A.			
Admissions for Part II/Sem.V			113	161	30	29	86
Admitted for Examinations*			250	166	30	29	29
Successful in Examinations			81	120	28	27	26

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

PART 3: GENERAL ADMINISTRATION

3.1 General Information: The University took up the construction of two buildings with the help of UGC with the sole aim of making infrastructure • accessible for students. About 1400m² area of building is being added to the assets of University in the form of following buildings:

1. Examinations Office.
2. Animal House for the Department of Zoology.
3. Shopping complex.

In addition to the above works, planning and designing of following works have been taken up.

1. Construction of Computer lab. Under MPLAD scheme.
2. Construction of Building of Life Sciences Faculty Block— Phase I.
3. Construction of extension of Faculty of Pure Sciences Block.

3.2 Computerization of University administrative functions: To improve upon the various functions of the administration, a number of additional latest and sophisticated computers have been installed in various sections. This has helped to minimize the search time and extend better administrative services to the teachers, students and others. The efforts are on to computerize the entire examinations system of the University in the near future.

3.3 Conduct of Examinations: The University has conducted 73 under-graduate and post-graduate examinations in various faculties during the first and second half of 1999-2000. Altogether 6316 students appeared at the examinations, and out of these 4074 were declared successful.

The University awarded 21 Ph.D degrees in different subjects during the academic year 1999-2000.

3.4 University Library: Presently its collection holding has reached to a total of 87,535 books with the addition of 3416 books for the year 1999-2000. The Library has been designated as an U. N. Depository Centre and it is receiving documents and United Nation's Publications since 1996. The Goa University Library subscribes 135 Foreign Journals and 182 Indian Journals apart from the Journals received on gratis. The other activities of the library are as follows:

CELEBRATION OF National Book Week was celebrated during 14-20 November. Automated library services inaugurated on 15th November 1999 at the hands of H.E. Lt. Gen. J.F.R. Jacob, Governor of Goa. With this automated services the teachers and students of Goa University can have access to the vast database of our library from their respective departments over a campus wide network. The other services rendered are as follows:

1. *COPSAT Service*
2. *Current Awareness Service*

BOOK EXHIBITION A book exhibition was held on the topic "Republic of India" on 8th February, 2000 which was inaugurated at the hands of H.E. Mohd. Fazal, Governor of Goa.

Electronic Information Service The launching of network based E-Information services was inaugurated at the hands of our Vice-Chancellor, Prof. B. S. Sonde on 31 March, 2000. With this facility all the reference sources like Encyclopaedia Britannica, Encyclopaedia of Science and Technology, World Book Encyclopaedia, Manorama Year Book, Oxford English Dictionary and EBSCO full text databases like Business Source Plus, Humanities, Social Science etc. can be accessed over the campus-wide computer network. Teachers and students of Goa University are able to access these sources from their networked desktop computers in the campus.

REFRESHER COURSE The 2nd Refresher course in Library and Information Science was conducted by Goa University Library in collaboration with A.S.C., Goa University during 19.4.2000 to 9.5.2000 for Librarians and Lecturers in Library and Information Science of Goa, Maharashtra and Karnataka.

Visits by different dignitaries to our Library

1. European Commission Delegation, New Delhi, 23.4.1999
2. Deputy Director, USIS, Mumbai, 26.4.1999
3. Dr. Jayant Narlikar, IUCAA, Pune, 2.11.1999
4. Lt. Gen. J.F.R. Jacob, Governor of Goa, 15.11.1999
5. Director J.D.C. Bylco Institute of Management Studies & Research, Nasik, 1.12.1999
6. K. Raju, Centre for Studies in Civilization, New Delhi, 20.12.1999
7. Dennis Almeida, University of Exeter, U.K., 3.1.2000
8. Christ of Burckhardi, E.P.F.L., Lausanne, Switzerland, 17.1.2000
9. Pamela Gupta, Dept. of Anthropology, Columbia University, New York, 14.2.2000
10. H.E. Mohd. Fazal, Governor of Goa, 8.2.2000

11. Jose Lello De Almeida, Minister of State of Portugal, 19.2.2000.
12. Dr. Klaus Vittinghoff, University of Karlsruhe, Germany, 23.2.2000
13. Dr. A. Lahiri, Advisor NISSAT, New Delhi, 23.2.2000
14. Delegation of Aveiro University, Portugal, 26.2.2000
15. V. Y. Halappa, Vice-President, Bar Council of India, 28.2.2000
16. European Commission Delegation, New Delhi, 23.4.1999
17. Deputy Director, USIS, Mumbai, 26.4.1999
18. Dr. Jayant Narlikar, IUCAA, Pune, 2.11.1999

APPOINTMENTS

The following persons are appointed as Asstt. Librarians

1. *Mr. M. Madhusudhan*
2. *Mr. M. Satish*

NOMINATIONS

P. V. Konnur, is nominated as Member of Raja Rammohan Roy Library Foundation, Calcutta (2000-2002).

Workshops Attended (Name, *Theme*, Organiser/Place, Dates)

P. V. Konnur, (i) *World Book Fair*, New Delhi, 9 — 12 Feb.'00 (ii) *British Library*, To discuss about gift of books and collected books for Goa University Lib' y, Mumbai, 17-19 May'99. (iii) *Mangalore University*, To discuss about the Library Automation Plan of Goa University and to bring the database of Mangalore University for downloading, Mangalore, 7-8 June 1999.

3.5 STUDENTS' SPORTS ACTIVITIES: Sports Section of Ale University organised the Inter-Collegiate tournaments in the following events separately for men and women and medals were distributed.

TEAM EVENTS (Name of the Sports, Position, College)

Tennis (M), Winners, S. S. Dempo College of Commerce and Economics, Panaji	Arts and Science, Mapusa
Tennis (M), Runners up, Damodar College of Commerce and Economics, Margao	Basketball (W), Runners up, VNS Bandekar College of Commerce, Mapusa
Handball (M), Winners, VNS Bandekar College of Commerce, Mapusa	Weightlifting (M), Runners up, Govt. College of Arts, Science and Commerce, Quepem
Handball (M), Runners up, St. Xavier's College of Arts and Science, Mapusa	Best Physique (M), Winners, V.M. Law, Panaji
Handball (W), Winners, Carmel College Nuvem	Best Physique (M), Runners up, Saraswat College of Commerce and Management Studies, Mapusa
Handball (W), Runners up, VNS Bandekar College of Commerce, Mapusa	Cross Country (M), Winners, Naval Academy, Verem
Kho-Kho (M), Winners, GVM College of Commerce & Economics, Ponda	Cross Country (M), Runners up, Govt. College of Arts, Science and Commerce, Quepem
Kho-Kho (M), Runners up, Mallikarjun College of Arts and Commerce, Canacona	Cross Country (W), Winners, Rosary College of Arts and Commerce, Navclim
Kho-Kho (W), Winners, GVM College of Commerce & Economics, Ponda	Cross Country (W), Runners up, Govt. College of Arts, Science and Commerce, Quepem
Kho-Kho (W), Runners up, Govt. College of Arts, Science and Commerce, Sanquelim	Cycling (M), Winners, Govt. College of Arts, Science and Commerce, Quepem
Volleyball (M), Winners, Dhempe College of Arts and Science, Miramar, Panaji	Cycling (Men), Runners up, Chowgule College of Arts and Science, Margao
Volleyball (M), Runners up, MES College of Arts and Commerce, Zuarinagar	Tennikoit (W), Winners, Carmel College for Women, Nuvem
Volleyball (W), Winners, St. Xavier's College of Arts and Science, Mapusa	Tennikoit (W), Runners up, GVM College of Commerce and Economics, Ponda
Volleyball (W), Runners up, Carmel College for Women, Nuvem	Judo (M), Winners, PES College of Arts and Science, Farmagudi
Hockey (M), Winners, Chowgule College of Arts and Science, Margao	Judo (M), Runners up, GVM College of Commerce and Economics, Ponda
Hockey (M), Runners up, Govt. College of Arts, Science and Commerce, Khandola	Judo (W), Winners, Govt. College of Arts, Science and Commerce, Sanquelim
Hockey (W), Winners, St. Xavier's College of Arts and Science, Mapusa	Judo (W), Runners up, PES College of Arts and Science, Farmagudi
Weightlifting (M), Winners, St. Xavier's College of	

Hockey (W), Runners up, VNS Bandekar College of Commerce, Mapusa
 Table Tennis (M), Winners, S.S. Dempo College of Commerce and Economics, Panaji
 Table Tennis (M), Runners up, MES College of Arts and Commerce, Zuarinagar
 Table Tennis (W), Winners, Damodar College of Commerce and Economics, Margao
 Table Tennis (W), Runners up, Carmel College for Women, Nuvem
 Football (M), Winners, St. Xavier's College of Arts and Science, Mapusa
 Football (M), Runners up, CES College of Arts and Commerce, Cuncolim
 Football (W), Winners, Carmel College for Women, Nuvem
 Football (W), Runners up, St. Xavier's College of Arts and Science, Mapusa
 Swimming (M), Winners, PES College of Arts and Science, Farmagudi
 Swimming (M), Runners up, Padre Conceicao College of Engineering, Verna and Govt. College of Arts, Science and Commerce, Quepem
 Chess (Mix), Winners, College of Engineering, Farmagudi
 Chess (Mix), Runners up, Padre Conceicao College of Engineering, Verna
 Kabaddi (M), Winners, Mallikarjun College of Arts and Commerce, Canacona
 Kabaddi (M), Runners up, Saraswat College of Commerce and Management Studies, Mapusa
 Kabaddi (W), Winners, Zantye College of Commerce, Bicholim
 Kabaddi (W), Runners up, PES College of Arts and Science, Farmagudi
 Badminton (M), Winners, Saraswat College of Commerce and Management Studies Mapusa
 Badminton (Men), Runners up, Padre Conceicao College of Engineering, Verna
 Badminton (W), Winners, St. Xavier's College of Arts and Science, Mapusa
 Badminton (W), Runners up, Damodar College of Commerce and Economics, Margao
 Powerlifting (M), Winners, Govt. College of Arts, Science and Commerce, Quepem
 Powerlifting (Men), Runners up, CES College of Arts and Commerce, Cuncolim

INDIVIDUAL EVENTS (Name, Medal, *Sports*, College)

Mario Miranda, Gold, *1500 Mtrs. Run*, Saraswat College of Commerce and Management Studies, Mapusa
 M. Fernandes, Silver, *1500 Mtrs. Run*, Rosary College of Arts and Commerce, Navelim
 Felix D'Souza, Bronze, *1500 Mtrs. Run*, Saraswat College of Commerce and Management Studies, Mapusa
 Marceilina Coelho, Gold, *1500 Mtrs. Run*, Saraswat College of Commerce and Management Studies, Mapusa
 Basketball (M), Winners, S.S. Dempo College of Commerce and Economics, Panaji
 Basketball (M), Runners up, Chowgule College of Arts and Science, Margao
 Basketball (Women), Winners, Damodar College of Commerce and Economics, Margao
 Athletic (M), Winners, Saraswat College of Commerce and Management Studies, Mapusa
 Athletic (M), Runners up, MES College of Arts and Commerce, Zuarinagar
 Athletic (W), Winners, VNS Bandekar College of Commerce, Mapusa
 Athletic (W), Runners up, St. Xavier's College of Arts and Science, Mapusa
 Cricket (M), Winners, VNS Bandekar College of Commerce, Mapusa
 Cricket (M), Runners up, Chowgule College of Arts and Science, Margao
 Cricket (W), Winners, St. Xavier's College of Arts and Science, Mapusa
 Cricket (W), Runners up, GVM College of Commerce and Economics, Ponda
 4x400 Mtrs Relay (M), Gold, MES College of Arts and Commerce, Zuarinagar
 4x400 Mtrs Relay (M), Silver, Govt. College of Arts, Science and Commerce, Sanquelim
 4x400 Mtrs Relay (M), Bronze, Saraswat College of Commerce and Management Studies, Mapusa
 4x400 Mtrs. Relay (W), Gold, St. Xavier's College of Arts and Science, Mapusa
 4x400 Mtrs. Relay (W), Silver, VNS Bandekar College of Commerce, Mapusa
 4x400 Mtrs. Relay (W), Bronze, Rosary College of Arts and Commerce, Navelim
 5000 Mtrs. Run (W), Gold, Single Participant Reported
 5000 Mtrs. Run (W), Silver, Event cancelled.
 General Championship (M), Gold, Saraswat College of Commerce and Management Studies, Mapusa
 General Championship (M), Silver, MES college of Arts and Commerce, Zuarinagar
 General Championship (W), Gold, VNS Bandekar College of Commerce, Mapusa
 General Championship (W), Silver, St. Xavier's College of Arts and Science, Mapusa
 Melborne Sequeira, Bronze, *800 Mtrs.Run*, VNS Bandekar College of Commerce, Mapusa
 Marceilina Coelho, Gold, *800 Mtrs.Run*, Saraswat College of Commerce and Management Studies, Mapusa
 F. Carvalho, Silver, *800 Mtrs.Run*, Govt. College of Arts, Science and Commerce, Quepem
 Pratibha Gaonkar, Bronze, *800 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Sanquelim
 Marcelina Coelho, Gold, *3000 Mtrs. Run*, Saraswat

Maria Gomes, Silver, *1500 Mtrs.Run*, Rosary College of Arts and Commerce, Navelim
 Sunita Savaikar, Bronze, *1500 Mtrs.Run*, St. Xavier's College of Arts and Science, Mapusa
 Anthony Fernandes, Gold, *Long Jump*, MES College of Arts and Commerce, Zuarinagar
 Shailesh Chodankar, Silver, *Long Jump*, Saraswat College of Commerce and Management Studies, Mapusa
 Sandesh Barazankar, Bronze, *Long Jump*, Govt. College of Arts, Science and Commerce, Sanquelim
 Precila Dias, Gold, *Shot Put*, Damodar College of Commerce and Economics, Margao
 Anisah Begum, Silver, *Shot Put*, Damodar College of Commerce and Economics, Margao
 Debora Lobo, Bronze, *Shot Put*, VNS Bandekar College of Commerce, Mapusa
 Anthony Fernandes, Gold, *100 Mtrs.Run*, MES College of Arts and Commerce, Zuarinagar
 P.D. Shashikumar, Silver, *100 Mtrs.Run*, Dhemp College of Arts and Science, Miramar
 Shailesh Chodankar, Bronze, *100 Mtrs. Run*, Saraswat College of Commerce and Management Studies, Mapusa
 Jennifer Fernandes, Gold, *100 Mtrs. Run*, MES College of Arts and Commerce, Zuarinagar
 Uvena Fernandes, Silver, *100 Mtrs. Run*, Carmel College for Women, Nuvem
 Audry Mohanan, Bronze, *100 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Sanquelim
 Emanuel Fernandes, Gold, *High Jump*, Saraswat College of Commerce and Management Studies, Mapusa
 Amit Borkar, Silver, *High Jump*, MES College of Arts and Commerce, Zuarinagar
 Sandesh Barazankar and Prashant Gawas, Bronze, *High Jump*, Govt. College of Arts, Science and Commerce, Sanquelim
 Audhut Raut Desai, Gold, *Discus Throw*, Govt. College of Arts, Science and Commerce, Quepem
 Amit Madwalkar, Silver, *Discus Throw*, MES College of Arts and Commerce, Zuarinagar
 Paul Furtado, Bronze, *Discus Throw*, Chowgule College of Arts and Science, Margao
 Milagres Gaonkar, Gold, *10,000 Mtrs.Run*, St. Xavier's College of Arts and Science, Mapusa
 Surendra Velip, Silver, *10,000 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Quepem
 Suraj Dessai, Bronze, *10,000 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Quepem
 Amit Madwalkar, Gold, *Shot Put*, VNS Bandekar College of Commerce, Mapusa
 Paul Furtado, Silver, *Shot Put*, Chowgule College of Arts and Science, Margao
 Roshan Kumar Gurav, Bronze, *Shot Put*, Saraswat College of Commerce and Management Studies, Mapusa
 College of Commerce and Management Studies, Mapusa
 Sunita Savaikar, Silver, *3000 Mtrs. Run*, St. Xavier's College of Arts and Science, Mapusa
 Sophia Lawrence, Bronze, *3000 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Sanquelim
 Milagres Gaonkar, Gold, *5000 Mtrs.Run*, St. Xavier's College of Arts and Science, Mapusa
 Mario Miranda, Silver, *5000 Mtrs.Run*, Saraswat College of Commerce and Management Studies, Mapusa
 Shivram Harijan, Bronze, *5000 Mtrs.Run*, MES College of Arts and Commerce, Zuarinagar
 Taraknath Vengurlekar, Gold, *20 Kins. Walk*, Saraswat College of Commerce and Management Studies, Mapusa
 Milagres Gaonkar, Silver, *20 Kms. Walk*, St.Xavier's College of Arts and Science, Mapusa
 Tejan Haldankar, Bronze, *20 Kms. Walk*, Saraswat College of Commerce and Management Studies, Mapusa
 Shailendra Gaonkar, Gold, *Pole Vault*, Saraswat College of Commerce and Management Studies, Mapusa
 Viraj Dessai, Silver, *Pole Vault*, Chowgule College of Arts and Science, Margao
 Kailesh Gaonkar, Bronze, *Pole Vault*, Saraswat College of Commerce and Management Studies, Mapusa
 Emanuel D'Costa, Gold, *Jayeline Throw*, Saraswat College of Commerce and Management Studies, Mapusa
 Sandesh Barazankar, Silver, *Jayeline Throw*, Govt. College of Arts, Science and Commerce, Sanquelim
 Roshan Kumar Gurav, Bronze, *Jayeline Throw*, Saraswat College of Commerce and Management Studies, Mapusa
 Shailesh Chodankar, Gold, *Tripple Jump*, Saraswat College of Commerce and Management Studies, Mapusa
 Rajesh Job, Silver, *Tripple Jump*, Govt. College of Arts, Science and Commerce, Sanquelim
 Tushar Lotlikar, Bronze, *Tripple Jump*, St. Xavier's College of Arts and Science, Mapusa
 Vishnu Pethkar, Gold, *110 Mtrs.Hurdles*, Govt. College of Arts, Science and Commerce, Sanquelim
 Anthony Fernandes, Silver, *110 Mtrs.Hurdles*, MES College of Arts and Commerce, Zuarinagar
 Amit Borkar, Bronze, *110 Mtrs. Hurdles*, MES College of Arts and Commerce, Zuarinagar
 Twinkle Fernandes, Gold, *100 Mtrs. Hurdles*, VNS Bandekar College of Commerce, Mapusa
 Janifer Fernandes, Silver, *100 Mtrs. Hurdles*, MES College of Arts and Commerce, Zuarinagar
 Sheetal Redkar, Bronze, *100 Mtrs. Hurdles*, Saraswat College of Commerce and Management Studies, Mapusa
 Amit Madwalkar, Gold, *Hammer Throw*, VNS Bandekar College of Commerce, Mapusa

Debora Lobo; Gold, *High Jump*, VNS Bandekar College of Commerce, Mapusa
 Navaratna Ghevade, Silver, *High Jump*, Govt. College of Arts, Science and Commerce, Quepem
 Audry Mohanan, Bronze, *High Jump*, Govt. College of Arts, Science and Commerce, Sanquelim
 Rajesh Job, Gold, *400 Mtrs. Hurdles*, Govt. College of Arts, Science and Commerce, Sanquelim
 Amit Borkar, Silver, *400 Mtrs. Hurdles*, MES College of Arts and Commerce, Zuarinagar
 Yogesh Sawaldesai, Bronze, *400 Mtrs. Hurdles*, Saraswat College of Commerce and Management Studies, Mapusa
 Twinkle Fernandes, Gold, *400 Mtrs. Hurdles*, VNS Bandekar College of Commerce, Mapusa
 Sheetal Redkar, Silver, *400 Mtrs. Hurdles*, Saraswat College of Commerce and Management Studies, Mapusa
 Navaratna Ghevade, Bronze, *400 Mtrs. Hurdles*, Govt. College of Arts, Science and Commerce, Quepem
 Precila Dias, Gold, *Jayeline Throw*, Damodar College of Commerce and Economics, Margao
 Debora Lobo, Silver, *Javeline Throw*, VNS Bandekar College of Commerce, Mapusa
 Sophia Lawrence, Bronze, *Jayeline Throw*, Govt. College of Arts, Science and Commerce, Sang uelim
 Anthony Fernandes, Gold, *200 Mtrs. Run*, MES College of Arts and Commerce, Zuarinagar
 Bolmax Pereira, Silver, *200 Mtrs. Run*, St. Xavier's College of Arts and Science, Mapusa
 P.D. Shashikumar, Bronze, *200 Mtrs. Run*, Dhempe College of Arts and Science, Miramar
 Jennifer Fernandes, Gold, *200 Mtrs. Run*, MES College of Arts and Commerce, Zuarinagar
 Uvena Fernandes, Silver, *200 Mtrs. Run*, Carmel College for Women, Nuvem.
 Jyoti Chodankar, Bronze, *200 Mtrs. Run*, Saraswat College of Commerce and Management Studies, Mapusa
 Twinkle Fernandes, Gold, *Long Jump*, VNS Bandekar College of Commerce, Mapusa
 Audry Mohanan, Silver, *Long Jump*, Govt. College of Arts, Science and Commerce, Sanquelim
 Uvena Fernandes, Bronze, *Long Jump*, Carmel College for Women, Nuvem
 Rajesh Job, Gold, *800 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Sanquelim
 Raju Parwar, Silver, *800 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Sanquelim
 Janifer Fernandes, Silver, *Hammer Throw*, MES College of Arts and Commerce, Zuarinagar
 Sheetal Redkar, Bronze, *Hammer Throw*, Saraswat College of Commerce and Management Studies, Mapusa
 Rajesh Job, Gold, *400 Mtrs. Run*, Govt. College of Arts, Science and Commerce, Sanquelim
 Robert Silveira, Silver, *400 Mtrs. Run*, Saraswat College of Commerce and Management Studies, Mapusa
 Joao Carvalho, Bronze, *400 Mtrs. Run*, Chowgule College of Arts and Science, Margao
 Uvena Fernandes, Gold, *400 Mtrs. Run*, Carmel College for Women, Nuvem
 Marcelina Coelho, Silver, *400 Mtrs. Run*, Saraswat College of Commerce and Management Studies, Mapusa
 Twinkle Fernandes, Bronze, *400 Mtrs. Run*, VNS Bandekar College of Commerce, Mapusa
 Anisah Begum, Gold, *Discus Throw*, Damodar College of Commerce and Economics, Margao
 Pracila Dias, Silver, *Discus Throw*, Damodar College of Commerce and Economics, Margao
 Gipsy Ann D'Souza, Bronze, *Discus Throw*, VM Salgaonkar College of Law, Miramar
 Anthony Fernandes and Emanuel D'Costa, Gold, *Individual Championship*, MES College of Arts and Commerce, Zuarinagar and Govt. College of Arts, Science and Commerce, Sanquelim
 Emanuel D'Costa, Silver, *Individual Championship*, Saraswat College of Commerce and Management Studies, Mapusa
 Amit Madwalkar and Milagres Gaonkar, Bronze, *Individual Championship*, VNS Bandekar College of Commerce, Mapusa and St. Xavier's College of Arts and Science, Mapusa
 Marcelina Coelho, Gold, *Individual Championship*, Saraswat College of Commerce and Management Studies, Mapusa
 Twinkle Fernandes, Silver, *Individual Championship*, VNS Bandekar College of Commerce, Mapusa
 Debora Lobo, Bronze, *Individual Championship*, VNS Bandekar College of Commerce, Mapusa
 Emanuel D'Costa, Gold, *Decathlon*, Saraswat College of Commerce and Management Studies, Mapusa
 Tushar Litlikar, Silver, *Decathlon*, St. Xavier's College of Arts and Science, Mapusa
 Kailesh Gaonkar, Bronze, *Decathlon*, Saraswat College of Commerce and Management Studies, Mapusa
 Debora Lobo, Gold, *Heptathlon*, VNS College of Commerce, Mapusa
 N. Ghevade, Silver, *Heptathlon*, Govt. College of Arts, Science and Commerce, Quepem

Participation Inter-University tournaments:

1. Women football The tournament was conducted by Mahatma Gandhi University Kottayam.
2. Men football The tournament was conducted by Goa University (i.e. West Zone) at Fatorda Margao and Goa University got qualified for All India wherein it secured the fourth place.

Inter-Mural sports for Post Graduate students of Goa University were conducted wherein all the departments took part.

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

1. Goa University Students' Council comprising representatives of the colleges, affiliated to Goa University.

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

Activities:

1. Election of Goa University Student's Council for the year 1999-2000.

2. Election of post-graduate Students' Union for the year 1999-2000.

3. Organised Inter-Collegiate Youth Festival in February 2000.

4. Organized Inter Faculty Youth Festival for P. G. students in January 2000.

Published annual souvenir 'Millennium Vision' on the occasion of Annual Youth Festival of Post Graduate Students in January 2000.

Organized Inter Collegiate 'Youth Parliament' competition and prepared a team for representing Goa University, in the National Youth Parliament, organized by Ministry of Parliamentary Affairs, Govt. of India, New Delhi, in January 2000.

Organized Blood Donation Camp in association with ladies club of the University in September 1999.

Organized Annual Meet of Foreign Students in November 1999.

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

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

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

Counselling, Career guidance & Employment Liason Cell: University has started this Cell, under the charge of Dr. N. S. Bhat, where students are given guidance on their academic and non-academic pursuits as well as in respect of future prospects in the studies (in India & abroad) job opportunities etc

3.6.1 Activities:

Dr. T. D. Harlarnakar: (1) Participated in the Orientation Course, organized by the Ministry of Parliamentary Affairs, Govt. of India, in September 1999 in University of Mumbai. (2) Acted as Director of the National Seminar on "Road Culture" organized by the MARG-GOIA in November 1999. (3) Presented paper on "The Status of Women in Hindu Scriptures" in the Seminar "The Status of Women in the scriptures of different faiths" organized by Carmel College, Nuvem, Goa in November 1999. (4) Acted as Resource Person in the Video graphic educational programme organized by Indian Journal of Public Administration, Goa Chapter, for the workers in rural administration in October 1999. (5) Delivered a series of lectures on "the rural local self Government" (Panchayati Raj) for the elected members and government servants organized by Block Development Officers in Quepem, Bardez, Pernem and Bicholim in October-November 1999.

3.7 KONKANI ENCYCLOPAEDIA: The Konkani Encyclopaedia, the first of its kind in the Konkani language, is a prestigious project undertaken by Goa University. The Four Volume project of 4000 pages covers the knowledge in all disciplines supported with appropriate illustrations. The Konkani Encyclopaedia includes both scientific as well as cultural aspects of the knowledge. It is specially designed to cater to the needs of the scholars and the common man knowing Konkani. The first two volumes were released in 1992 and 1998 at the hands of Dr. Shivram Karanth and Shri Girish Karnad respectively, and the third volume was released at the hands of Prof. M. P. Rege, in 2000. The fourth volume is getting ready to release.

3.8 U.G.C. ACADEMIC STAFF COLLEGE:

The following Orientation and Refresher courses were conducted:

Course / Subject	Dates	M	F	Total
52 nd Orientation Programme	12.08.1999 — 08.09.1999	16	09	25
53 rd Orientation Programme	03.11.1999 — 30.11.1999	22	11	33
54 th Orientation Programme	23.02.2000 — 21.03.2000	29	19	48
1 Need based Refresher Course in Konkani.	31.05.1999 — 21.06.1999	09	08	17
II Refresher Course in Economics	12.06.1999 — 02.07.1999	23	12	35
V Refresher Course in Chemistry	21.07.1999 — 10.08.1999	27	05	32
X Refresher Course in Life Sc.-Botany	13.08.1999 — 02.09.1999	13	10	23
XI Refresher Course in Life Sc.— Biotech.	17.09.1999 — 07.10.1999	21	11	32
III Refresher Course in Commerce.	23.11.1999 — 13.12.1999	30	05	35
I Refresher Course in Sociology	08.02.2000 — 28.02.2000	21	11	32
XII Refresher Course in History	02.03.2000 — 22.03.2000	28	10	38
IV Refresher Course in Commerce	17.04.2000 — 08.05.2000	24	10	34
Refresher course in Lib. & Inf. Sc..	19.04.2000 — 09.05.2000	21	13	34
55 th Orientation Programme	10.05.2000 — 06.06.2000	24	13	37
56 th Orientation Programme	16.05.2000 — 12.06.2000	21	16	37
3-day Orien. Course for Supervisory Slat'.	15.11.1999 — 17.11.1999	13	06	19

3.8.1 Activities:

The College is in the process of conducting an Impact Study of Orientation and Refresher Courses conducted here. Questionnaires have been sent to participants who have attended various programmes here. Their responses are being collected and analyzed.

3.9 COLLEGE DEVELOPMENT COUNCIL: The College Development Council has been set up by the Goa University to establish liaison between affiliated Colleges and the University/University Grants Commission. It provides information to the Colleges about various grants available for development from the UGC and other institutions. Colleges are encouraged to prepare short term/long term development plans for promoting quality and excellence mainly at the undergraduate level. The College Development Council sends all relevant information about various UGC schemes under which colleges can obtain grants for development and research. The Coordinator, CDC is also expected to visit the Colleges for helping them in preparing grant proposals and do the follow up. The CDC takes the responsibility of conducting periodic inspection of Colleges with a view of assess their performance and suggest improvements.

The Council consists of the following members:

B. S. SONDE Vice-Chancellor, Goa University, <i>Chairman.</i>	G. N. KANTAK, Secretary, Chowgule Education Society Marmugao, <i>Member</i>
D. V. BORKAR, Registrar, Goa University, <i>Member</i>	B. L. MALIK, Lecturer in Chemistry, PES College, Ponda, <i>Member</i>
V. SHIVKUMAR, Dean, Faculty of Social Science, Goa University, <i>Member</i>	RADHIKA S. NAYAK, Lecturer, Carmel College, Nuvem, <i>Member.</i>
A. SREEKUMAR, Dean, Faculty of Management Studies, Goa University, <i>Member</i>	THE DIRECTOR, Directorate of Higher Education, Panaji Goa, <i>Member.</i>
JOHN FERNANDES, Principal, Govt. College, Khandola, <i>Member</i>	DATTARAJ V. S ALGAONKAR, President, Goa Chamber of Corn. & Industries, <i>Member.</i>
ANTIMO GOMES, Principal, St. Xavier's College, Mapusa, <i>Member</i>	V. R. SHIRGURKAR, Coordinator, College Development Council, <i>Member Secretary</i>
REPRESENTATIVE, Goa Small Industries Association, Panaji, <i>Member</i>	

The University Grants Commission has sanctioned development grants to 13 Colleges during the 9th Plan period. These colleges have received the 11th and 12th installments of University Grants Commission grants in the financial year 2000-2001.

The following Colleges were approved by the University Grants Commission for conducting vocational courses at the Under graduate level. They are receiving grants from the University Grants Commission for the purpose.

Sr.No.	Name of the College	Year	Subject
1.	PES College, Farmagudi, Ponda.	1999-2000	Industrial Chemistry
2.	GVM College of Commerce and Economics, Ponda Goa.	1999-2000	Advertising Sales Promotion and Sales Management (B.Com).

The College Development Council is giving final shape to the following two schemes.

1. Best College awards
2. Best Project awards

The following two Colleges were selected by the UGC for COSIP/COHSSIP grants during this academic year. (1) Smt. Parvatibai Chowgule College of Ails & Science, Margao Goa COSIP (2) Ponda Education Society's College of Arts & Science, Ponda Goa — COHSSIP

The statutes governing the functioning of autonomous colleges have been prepared.

3.10 THE BOARD OF EXTRA MURAL STUDIES AND EXTENSION SERVICES

B.S.SONDE, Vice Chancellor, Goa University, <i>Chairman</i> (<i>ExOfficio</i>)	BHARATHI BANDODKAR, Member MANIK RAO GAUNEKAR, Member
D.V.BoRKAR, Registrar, <i>Vice-Chairman</i> (<i>Ex-Officio</i>)	V. N. KAMAT DALAL, Member
U.A.VINAY KUMAR, Hon. Director, <i>Ex-Officio Member Secretary</i>	

The budget allocated for EMS & ES has been raised to Rs. 40,000.00 for the year 1999-2000 from Rs. 10,000=00 in 1998-99 (see FE P.43 under 'F'). Energy Park Follow-up: Due to regular interaction with the Goa Energy Development Agency, Govt. of Goa, the Director of EMS & ES could get a thorough follow up in the Energy Park Project. A preliminary meeting of Education Officers of both Govt. of Goa and Goa University was suggested with the "Scheme of Basic and Post Literacy Centre under Adult Education" as the main agenda. Nodal Agency Meeting: Nodal Agency, consisting of Depts. Of Adult Education of Universities in Maharashtra and Goa held its meeting on 27-29 September 1999 at BAMU, Aurangabad. Important issues and strategies to implement programmes in unison was discussed. A memento was presented to the Goa University for its work through EMS & ES. This was later handed over to he Vice-Chancellor, Goa University.

A panel of judges from among the Faculty Member of Science & Language Faculty from Goa University was prepared on 04.11.99 at the request of the Chairman, Board of EMS & ES, as the same was received from AGSTA, for the purpose of National Children's Congress (December 27-29). This was sent to the Chairman, Board of EMS & ES. As in the past, lectures on Vedic Mathematics were delivered by the Hon. Director during December 1999, to the High School students at St. Cruz.

Science Day Celebrations & open Day: The Annual feature of Science Day celebration was once again on the agenda of EMS & ES. Seminar attended: A seminar on "Reaching the unreached through the University Extension Education and the National Open School" at University of Mumbai, organized by the dept. of Adult and continuing Education and Extension was attended on March 29-30, 2000.

Infrastructure Development: As the need to build infrastructure was pressing especially the Computer facility, the same was procured in March/April, 2000.

Superintending SNTDWU's Exam at Zee Centre Margao: Diploma exams in Interior Designing and Fashion Designing conducted by SNTD Women's University at Zee Centre, Margao was superintended by the Board of Extra Mural Studies, Goa University on request during 3-8 July, 2000.

3.11 COUNSELING, CAREER GUIDANCE AND EMPLOYMENT LIAISON CELL (CCGELC): During June 1999-May 2000 the above Cell organized the following activities: (a) A team of three Faculty members from Marine Biotechnology Department of Goa University along with Dr. A. B. Shanbhag, Hon. Co-ordinator of the Cell, visited S. P. Chowgule College, Margao and Carmel College, Nuvem in March 2000 and held discussion with the T.Y. B.Sc. students and informed them about the selection of students for M.Sc. course in Biotechnology, Goa University. (b) The Cell circulated circulars, advertisements etc. related to job opportunities to different Departments and Colleges.

PART 4: AFFILIATED COLLEGES

4.0 List of Affiliated Colleges:

(a) Non-Professional Colleges:

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

(b) Professional Colleges

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

4.1 DHEMPE COLLEGE OF ARTS & SCIENCE, PANAJI.

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

S. D. Gore, <i>Principal</i>	Soniya Rao.M.Sc., <i>Lecturer</i> , Chemistry
A.M. Nadkarni, M.Sc., <i>Vice-Principal</i> , Geology	Varsha Sardesai, M.Sc., <i>Lecturer</i> , Chemistry
Ramola Antao, M.A., <i>Lecturer</i> , English	R. Belurkar, M.Sc., <i>Lecture Basis</i> , Chemistry
Rabin B. Pinto, M.A., <i>Lecturer</i> , English	S.U. Kamat, M.Sc., <i>Lecturer</i> , Mathematics
Maria Isabel Vaz, M.A., <i>Lecturer</i> , English	G.V. Kulkarni, M.Sc., <i>Lecturer</i> , Mathematics
Preet K. Shankhwalkar, M.A., <i>Lecturer</i> , English	Maria S. Miranda, M.Sc., <i>Lecturer</i> , Mathematics.
Edwin Cortez, M.A., <i>Lecturer</i> , Economics	Sharmila P. Kamat, M.Sc., <i>Lecturer</i> , Physics
Shilpa Samant, M.A., <i>Lecturer</i> , Economics	Sandeep S. Burye, M.Sc., <i>Lecturer</i> , Physics
K.S. Govekar, M.A., <i>Lecturer</i> , Political Science	Murthy P.S. Ramu, M.Sc., <i>Lecturer</i> , Physics
V. U. Prabhugaonkar, M.A., <i>Sr.Lecturer</i> , History	Swati R. Pawar, M.Sc., <i>Lecturer</i> , Physics
Prajal Salchardande, M.A., <i>Lecturer</i> , History	M.Khorgaonkar, M.Phil, <i>Lecture Basis</i> , Physics
M. Khandeparkar, M.A. <i>Lecturer</i> , <i>Social Sciences</i>	G.I. Hukkeri, M.Sc., <i>Lecturer</i> , Botany
A.C. Afonso, L.L.B., <i>Lecturer</i> , Phil. & Psy.	K.G. Hiremath, Ph.D., <i>Reader</i> , Botany
Z. D' Silva, Ph.D., <i>Lecturer</i> , Phil. & Psychology	P.N. Pangu, Ph.D., <i>Reader</i> , Botany
W.A.Manuel, M.A., <i>Lecturer</i> , Phil. & Psychology	Mangala Prabhu Dessai, M.Sc., <i>Lecturer</i> , Botany
M.Karamadi, M.A., <i>Lecture</i> , Phil. & Psychology	Manjiri Kelkar, M.Sc., <i>Lecturer</i> , Botany
R.Rodrigues, <i>Lecturer</i> , Philosophy & Psychology	Shubhangi Pangam, M.Sc., <i>Lecture Basis</i> , Botany
Ravindra D. Ghavi, M.A., <i>Lecturer</i> , Marathi	Y. Modassir, Ph.D., <i>Reader</i> , Zoology
H.V. Upadhye, M.A., <i>Lecturer</i> , Hindi	S.J. Godse, M.Sc., <i>Lecturer</i> , Zoology
Anju P. Khaunte, M.A., <i>Lecturer</i> , Konkani	S.R. Ganihar, Ph.D., <i>Reader</i> , Zoology
K.G. Kamat, Ph.D., <i>Reader</i> , Chemistry	Sucheta G. Halkar, M.Sc., <i>Lecturer</i> , Zoology
R.A.S. Dhume, Ph.D., <i>Reader</i> , Chemistry	Suchana Amonkar, M.Sc., <i>Lecturer</i> , Zoology
V.S. Dinge, M.Sc., <i>Lecturer</i> , Chemistry	Kavita Nair, M.Sc., <i>Lecture Basis</i> , Zoology
Vrinda P.S. Borkar, Ph.D., <i>Reader</i> , Chemistry	R.P. Gurav, M.Sc., <i>Lecturer</i> , Geology
Leena S. Talwadkar, Ph.D., <i>Lecturer</i> , Chemistry	A.G. Agshikar, M.Sc., <i>Lecturer</i> , Geology
A.Rajan, M.Sc., <i>Lecturer</i> , Computer Awareness	Orlando A. Fernandes, M.Sc., <i>Lecturer</i> , Geology
Swati Joshi, M.C.A., <i>Lecturer</i> , Computer Science	D. S. Parab, M.Sc., <i>Lecturer</i> , Geology
Uday S. Naik, Ph.D., <i>Lecturer</i> , Chemistry	M. Rajeevan, M.Sc., <i>Lecture Basis</i> , Geology
V. S. Prabhudesai, M.Sc., <i>Lecturer</i> , Chemistry	C. Porob, M.A., <i>Director of Physical Education</i>

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

Yasmin Modassir, *Survey of Molluscan Resources with particular reference to economically important -Bivalves of Goa Coast*, 20/7/1998, *Department of Ocean Development, New Delhi*, Rs. 4,58,000/-

Linasham Talwadker, *Developing organic reactions with microwave assistance in eco-friendly environment*, 31.3.2000, *UGC*, Rs. 50,000/-.

4.1.5 Seminars/Conferences/Workshops, etc.

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

Yasmin Modassir, *Society of Biosciences Muzaffarnagar*, Muzaffarnagar, 27 and 28 November 1999, *Distribution of Benthic Bivalves along Goa Coast, Central West Coast of India*.

R.A.S. Dhume, *Shri Chhatrapati Shivaji College, Omurga Maharashtra*, Osmanabad, 11-12 Feb'00.

O. A. Fernandes, *Govt. College Pernem Goa*, Pernem Goa, *The evolving coast of Goa* 22.11.2000.

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

S. Godse, *Basic Technique in Animal Cell Culture*, National Centre for Cell Science Pune, 15-27/5/2000.

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

Y. Modassir, (i) *The Intertidal Fauna inhabiting an exposed sandy beach at Miramar, Goa*, *Ad.Bios*, 19 (1), 2000, (ii) *Effect of Petroleum hydrocarbon on Physiological & Biochemical parameters in Estuarine Clam, Paphia malabarica*, *Fishery Technology*, 37 (1), 2000 and (iii)

Effect of salinity on the toxicity of mercury in mangrove clam, Polymesoda (Solander 1789), Asian Fisheries Science, 13 (2000), 2000.

- O. A. Fernandes, *A Post K-T Boundary Age for Deccan Type feeder dykes, Goa India, Journal of Petrology (O.U.P.), 41 (No. 7), July 2000.*

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

R. Dhume (Co-Author), *Modern's Text Book of Chemistry*, Modern Publishers, Alto-Porvorim, 1998.
L. Talwadkar (Co-Author), (i) *Practical Chemistry for F.Y.B.Sc.*, Himalaya Publishing House, Mumbai, 1998 and (ii) *Practical Chemistry for S.Y.B.Sc.*, Himalaya Publishing House, Mumbai, 1998.

4.1.7 Sponsored Consultancy work undertaken. (Teacher, Nature of consultancy, Sponsorer, Duration of consultancy, Amount)

R.P. Gurav, *Engineering*, Department of Mines, one month, Rs. 1000/-.

4.1.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(b) Sports: (Name of Student/Team, Achievement (Medals/Place etc.), Sports (Team Or Individual).

Shekar Balekar, 1st Place, Weight Lifting

Kathia Souza, 3rd Place, 50 mts. Backstroke
College Team, 2nd Place, Football

S. Balekar, 1st Place, Power Lifting

S. Balekar, 2nd Place, Best Physique (54 kg.
Category)

4.1.10 Any other information

D.C.T'S Dhempe College of Arts & Science Miramar participated in the various sports activities of Goa University during the first term of 2000 such as Badminton (Men & Women), Table Tennis (Men & Women), Chess, Weight Lifting, Power Lifting and Best Physique, Cycling (Men) Swimming, (Men & Women) Tennis (Men), Football (Men).

Roger Fernandes of T.Y. B.Sc. and Filip Pereira of S.Y.B.A. represented Goa University in Football for the Inter-University in Football tournament.

Sagun Kamat of F.Y. B.A. represented Goa State in Cricket.

4.2 SMT.PARVATIBMCHOWGULE CULTURAL FOUNDATIONS COLLEGE OF ARTS & SCIENCE, MARGAO.

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

V. R. Shirgurkar, M.A., *Principal*, Economics

S. K. Naik, M.Sc., *Vice-Principal*, Chemistry

V. Narayan, M.Sc., *Lecturer*, Physics

D. Date, M.Sc., *Demonstrator*, Physics

Vijay Richard D'Costa, M.Sc., *Lecturer*, Physics

N.V. Kamat, M.Sc., *Lecturer*, Physics

S. N. Pai Raiturkar, M.Sc., *Lecturer*, Physics

Malati Tirvir, M.Sc., *Lecturer*, Physics

Ananya Das, Ph.D., *Lecturer*, Physics

S. A. Antao, Ph.D., *Lecturer*, Chemistry

S. J. Borkar, M. Sc., *Lecturer*, Chemistry

Maria J.DeSouza, M.Sc., *Lecturer*, Chemistry

S. P. S. Kakodkar, M. Sc., *Lecturer*, Chemistry

Ganpat K. Naik, Ph.D., *Lecturer*, Chemistry

R. S. Padiyar, M.Sc., *Lecturer*, Chemistry

N.G. Rivonkar, M. Sc., *Lecturer*, Chemistry

B.V. Shirwaikar, M.Sc., *Lecturer*, Chemistry

N. B. Shirwaikar, M.Sc., *Lecturer*, Botany

R.V. Gaonkar, Ph.D., *Reader*, Botany

Uma J. Patil, M.Sc., *Lecturer*, Botany

A.V. Veeresh, Ph.D., *Lecturer*, Botany

N. Visalakshi, Ph.D., *Lecturer*, Botany

M.S. Anthony, M.Sc., *Lecturer*, Zoology

S. Bhat, M.C.A., *Lecturer*, Computer Science

S. R. Ghanti, M.Phil., *Lecturer*,

Computer Science

S.R. Ingle, M.Phil., *Lecturer*, Geography

S.M. Ambli, Ph.D., *Lecturer*, Geography

N.N. Sawant, M.A., *Lecturer*, Geography

V.S. Amonkar, M.Sc., *Lecturer*, Mathematics

R. D. Karapurkar, M.Sc., *Lecturer*, Mathematics

Kumaresh V., M.Sc., *Lecturer*, Computer Science

D.Prabakaran, M.C.A., *Lecturer* Comp. Science

S R.Vernecar, M.Sc., *Lecturer*, Computer Science

Rajashree R. Desai, M. A., *Lecturer*, English

Celeste Fernandes, M. A., *Lecturer*, English

Kavita Nair, M.A., *Lecturer*, English

D. Majumdar, M.A., *Lecturer*, Economics

E.M. Travassos, Ph.D., *Lecturer*, Economics

S.P.S. Verenkar, M.A., *Lecturer*, Economics

Aparajia Chatterjee, M.A., *Lecturer*, Sociology

S.S. Naik, M.A., *Lecturer*, Philosophy

Kavita A. Borker, M. A., *Lecturer*, Philosophy

R.V. Joshi, Ph.D., *Lecturer*, Philosophy

R.V. Patil, M.A., *Lecturer*, Philosophy

Om Prakash Tripathi, Ph.D., *Lecturer*, Hindi

P.N. Kavri, M.Sc., *Lecturer*, Zoology
 K.N. Mishra, M.Sc., *Lecturer*, Zoology
 D.K. Tikare, Ph.D., *Lecturer*, Zoology
 M. Veeresh, M.Sc., *Lecturer*, Zoology
 S.M. Borges, M.Sc., *Lecturer*, Geology
 M.S. Katti, M.Phil., *Lecturer*, Geology
 A. Adhikari, M.Tech., *Lecturer*, Computer Science
 A. Barreto, M.C.A., *Lecturer*, Computer Science
 Sangeeta Sankhalkar, M.Sc., *Lecturer*, Botany
 Allan Rodrigues, M.Sc., *Lecturer*, Geology
 N. Damale, M.C.A., *Lecturer*, Computer Science
 S. Fernandes, M.Sc., *Lecturer*, Computer Science
 Santa S. Naik Tani, M.A., *Lecturer*, History

Lata G. Shirodkar, M.A., *Lecturer*, Hindi
 P. Antony, Ph.D., *Lecturer*, History
 M.D.S. Borkar, M.A., *Lecturer*, French
 S.S. Phadke, Ph.D., *Lecturer*, Konkani
 Gunaji S. Dessai, M.A., *Lecturer*, Konkani
 S.S. Adsul, M.Phil., *Lecturer*, Marathi
 H.S.S.S. Nadkarni, M.Sc., *Lecturer*, Geology
 Anthony A. Viegas, M.Sc., *Lecturer*, Geology
 A.P. Masur, M.Sc., M.S., *Lecturer*, Mathematics
 Abigail V. Barreto, M.Sc., *Lecturer*, Mathematics
 D. Bagchi, M.Phil., *Director*, Physical Education
 Rupali Bhat, M.A., *Lecturer*, Economics
 J.D. Barreto, M.C.A., *Lecturer*, Computer Science

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

Sangeeta Sankhalkar, *Role of Leaxanthin in Energy Dissipation in Lichens*, 22/4/2000 to 18/6/2000, Prof Dr. em. U. Heber at Julius Von Sachs Institut Jiff Biowissenschaften, Wuirzburg, Germany, 2000 DM p.m..

D. K. Tikare, *Seasonal fluctuation of Planktons on Physic^o Chemical properties of Raitollem Lake*, March 2000, University Grants Commission, Rs. 35,000/-.

S. P. S. Kakodkar, *Characterisation and structural and catalytic properties of fine particle metal chromites obtained from Hydrazine based salts*, March 2000, University Grants Commission, Rs. 40,000/-.

4.2.5 Seminars/Conferences/Workshops, etc.

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

Workshop for T.Y.B.Sc. & T. Y. B.A., students on project report writing, 11 & 13/7/1999 resp., College, General.

Workshop for College & Higher Secondary Section teachers on 'Education', 3/10/1999, College, General.

Workshop on Leadership and Team Building, 3-4 December, 1999, College, General.

Workshop of Astronomy for All Goa XI Science Students org. jointly by Inter-University Centre for Astronomy & Astrophysics & Sint. Parvatibai Chowgitle College, 3-4 Feb.'00, College, General.

Workshop for Students of IT Guidance Centre, 10-12 February 2000, College, General.

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

P. Antony, *International Seminar jointly organised by Xavier Centre of Historical Research, Porvoritn; Fundacao Oriente, Lisbon and the University of Cologne, Germany*, Panaji Goa, 6-9 September 1-999, *Liberty goods and private trade: Some reflections on the liberty and subtlety of the 18th Century Indo-Portuguese Trade*.

Sangeeta Sankhalkari (i) *International Conference on Life Sciences of the Millennium organized by University of Hyderabad, ICRISAT, Hyderabad*, 11-14 December 1999, *"Carotetwids & Photoprotection — A Role of Xanthophyll Cycle in Sorghum Seedlings"* and (ii) *National Seminar on Recent Advances in Plant Biology organized by Society for Plant Physiology & Biochemistry, CPCRI Kasargad*, 3-5 February 2000, *"Recent Advances in Plant Biology"*.

V. R. Shirgurkar (i) *Third Annual CDI Conference organized by Educational Resources Centre Trust, New Delhi*, New Delhi, 27-28 January, 2000 and (ii) *International Conference on 'Education' organized by Association of Indian Universities*, New Delhi, 22-24 February, 2000.

R. V. Joshi, *International Vedanta Congress jointly organized by the University of Miami and University of Hyderabad*, Hyderabad, August 1999, *"Aurobindo's idea of Brahman towards integrating Nirguna and Saguna Brahman"*.

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

Om. Prakash Tripathi (i) *Samakaleen Gadya*, Jawahar Navoday Vidyalaya, Canacona, 12/5/2000 and (ii) *Hindi Literature — A General view*, Jawahar Navoday Vidyalaya, Canacona, 15/5/2000.

M. Antony, *Training for Trainers*, Educational Resource Trust of Delhi, Hyderabad, 12-17 Feb.'00.

Uma Patil, "Principles and Techniques of Viral Diagnostics for Micropropagation and Flori-Horticulture Industry", Palampur, Himachal Pradesh.

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

R. S. Padiyar (co-author), "MODERN'S *dbc OF CHEMISTRY*" Modern Publishers, New Delhi, 1999.

4.2.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

(i) Menezes Andrea Maria. 1st Rank, T.Y.B.Sc. (ii) Noronha Walton Savio Joao Francisco, 1st Rank, T.Y.B.A.

(b) Sports: (Name of Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual)

Mary Barbosa, Gold, Judo

Ranipha Fernandes and Alvernaz Rebello,
Second Place, Shot Put and 5000 mts. Run.

Spencer Viegas, Silver, Judo

4.2.10 Any other information:

1. The college was assessed by a Peer team of experts sent by the National Assessment & Accreditation Council, Bangalore, in the third week of August 1999. The Peer team submitted a very encouraging report. The NAAC accredited the college with FOUR STARS.
2. Vice-Principal S. K. Naik, Department of Chemistry, is appointed as a peer team member by National Assessment & Accreditation Council, Bangalore, in September 1999. He was invited to assess B. K. College for Women in Kerala from 11-13 October 1999. He is also appointed as a member of the Board of Studies in Chemistry of Goa University, upto the period 2002.

4.3 ST. XAVIER'S COLLEGE, MAPUSA.

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

Antimo Gomes, M.A., *Principal*, Philosophy
M.Monteiro, M.Sc., *Vice-Principal*, Microbiology
Walter De Sa, M.A., *Vice Principal*, Sociology
A. Cynarra Viera, M.A., *Lecturer*, Philosophy
B.S. Keshavan, B.Sc., *Demonstrator*, Physics
Rajendra Kanekar, M.Phil., *Lecturer*, Physics
Benedict Soares, M.Sc., *Lecturer*, Physics
Dominick N. Lobo, M.Phil., *Lecturer*, Physics
Pradeep Morajkar, M.Sc., *Lecturer*, Physics
Andrew Dias, M.Sc., *Lecturer*, Physics
Manoj Salgaonkar, M.Sc., *Lecturer*, Physics
Lawrence M.B.John, M.Sc., *Lecturer*, Physics
Daryl Gonsalves, M.Sc., *Lecturer*, Electronics
Vilma M. Fernandes, M.Sc., *Lecturer*, Electro.
Sindhu R. Pillai, M.Sc., *Lecturer*, Electronics
G.R. Dukle, M.Sc., *Lecturer*, Chemistry
A.S. Timble, M.Sc., *Lecturer*, Chemistry
D.R. Natekar, M.Sc., *Lecturer*, Chemistry
Tushar Anvekar, M.Sc., *Lecturer*, Chemistry
Edwina Fernandes, M.Sc., *Lecturer*, Chemistry
Kathleen Pinto, M.Sc., *Lecturer*, Chemistry
Isabel De Noronha, M.Sc., *Lecturer*, Chemistry
Sajo Naik, M.Sc., *Lecturer*, Chemistry
Teotone Inas M. Vaz, M.Sc., *Lecturer*, Chemistry
Janesline Fernandes, M.Sc., *Lecturer*, Chemistry
L. Mascarhenas, M.Sc., *Lecturer*, Chemistry
S.Velho Martins, M.Sc., *Lecturer*, Microbiology
Nelson D'Souza, M.Sc., *Lecturer*, Microbiology
U. Pinto Barreto, M.Sc., *Lecturer*, Microbiology
Judith D'Souza, M.Sc., *Lecturer*, Microbiology
L. M. D'Souza, M.Sc., *Lecturer*, Microbiology

Blanche Mascarenhas, MA, *Lecturer*, Economics
Gema Fernandes, M.A., *Lecturer*, Economics
Marlon D'Souza, M.A., *Lecturer*, Economics
Emilia Mascarenhas, M.Sc., *Lecturer*, Botany
Maria Araujo, M.Sc., *Lecturer*, Botany
Wendy Xavier, M.Sc., *Lecturer*, Botany
Sabina Sales, M.Sc., *Lecturer*, Botany
Maria B.de Souza, M.Sc., *Lecturer*, Botany
Conceicao de Souza, M.Sc., *Lecturer*, Botany
A.S. Mudbidri, M.Sc., *Lecturer*, Mathematics
Ryan Fernandes, Ph.D., *Lecturer*, Mathematics
Fatima Pereira, M.Sc., *Lecturer*, Mathematics
Alice Barneto D'Cruz, M.A., *Lecturer*, English
Audrey Fernandes, M.A., *Lecturer*, English
Shirlene Palha, M.A., *Lecturer*, English
Sunita Fernandes, M.A., *Lecturer*, English
Maria Claudette Gomes, M.A., *Lecturer*, English
Tricia D. Vaz, M.A., *Lecturer*, Political Science
Cajetan Raposo, M.A., *Lecturer*, Political Science
Magdalene D'Souza, M.Phil., *Lecturer*, Hindi
Ramita Gurav, M.A., *Lecturer*, Hindi
Aruna Ganu, M.A., *Lecturer*, Marathi
Vrunda Kelkar, M.A., *Lecturer*, Marathi
Satish Bute, M.A., *Lecturer*, Konkani
B. Rajasekhar, M.Phil., *Lecturer*, Corn/Accounts
M.Fernandes, [M.Com.](#), *Lecturer*,
Commerce/Accounts
Y.G.Patvekar, M.Phil., *Lecturer*,
Commerce/Accounts
S.Da Costa, [M.Com.](#), *Lecturer*, Commerce/Accounts

Sudha Chari, Ph.D., *Reader*, Philosophy

M. E. Rodrigues, M.Sc., *Lecturer*, Biochemistry
 Balakrishnan C. Nair, M.Sc., *Lecturer*, Maths.
 T.Mascarenhas, M.C.A., *Lecturer*, Computer Sc.
 E. D'Souza, M.C.A., *Lecturer*, Computer Sc.
 S.J.Vaz, M.C.A. *Lecturer*, Computer Sc.
 S.Majumdar, M.C.A., *Lecturer*, Computer Sc.
 Jacqueline Monteiro, M.A., *Lecturer*, Economics
 Ruth D'Souza, M.A., *Lecturer*, Psychology
 Anuradha Kakodkar, M.A., *Lecturer*, Psychology
 P. Mandrekar, M.C.M., *Lecturer*, Computer Sc.
 Dharma S. Chodanker, M.A., *Lecturer*, Konkani

H. Furtado, [M.Com.](#), *Lecturer*, Commerce/Accounts
 E. Fonseca, [M.Com.](#), *Lecturer*, Commerce/Accounts
 D.D'Souza, [M.Com.](#), *Lecturer*, Commerce/Accounts
 O. B. D 'Mello, [M. C o m.](#), *Lecturer*,
Commerce/Accounts
 C.D.Mello, M.M.S. *Lecturer*,
Commerce/Management
 D.M. Jakatti, M.A., *Lecturer*, Geography
 Simao Diniz, M.A., *Lecturer*, Psychology
 J. Fernandes, M.A., *Lecturer*, Psychology
 Pamela Fernandes, M.A., *Lecturer*, History
 M.Fernandes, M.P.Ed., *Director*, Physical Education
 Sharmila Pais, M.A. *Lecturer*, History
 Ubaldina Noronha, M.A., *Lecturer*, Psychology
 Annie Fernandes, M.A., *Lecturer*, Sociology

4:3.3 List of Visiting Scholars (Name of Scholar, Institute, *Title of lecture delivered*, Date)

M.V. Pylee, Cochin University, *Human Rights in the New Millennium*, March, 2000.

4.3.5 Seminars/Conferences/Workshops, etc.

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

Human Rights in the New Millennium, 9.3.2000 to 11.3.2000, UGC, St. Xavier's College.

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

B.C. Nair, *National Institute for Rural Development — NIRD*, Hyderabad, 12.10.1999, 13.10.1999 and 14.10.1999, *Marketing of Broilers: A Case Study in Goa*.

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

Sajo Naik, *TPD Studies on a New Active ZnO Catalyst*, *Thermochimica Acta*, Vol.332 pg. 21-25, 1999.

B.C. Nair, *Economic Viability of layer farming in the State of Goa*, *Indian Journal of Poultry Science*, Vol.35 (1) pg. 73-76, April, 2000.

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

Marlon D'Souza (co-author), *Business Economics*, Modern Publishers, 1999.

G. R. Dukle (co-author), *Modern's ABC of Chemistry*, Modern Publishers, 1999.

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

B. C. Nair, Statistics, *An Economic Analysis of Poultry Farming in the State of Goa*.

4.3.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

(i) Rachel Ezdani, 1st Rank, T.Y.B.Com. (ii) Mario D'Costa, 2nd Rank, T.Y.B.A.

4.3.10 Any other information:

(a) Awards/Honours conferred.

Fr. Antimo Gomes, Principal, was awarded the Rev. Fr. T.A. Mathias Award from AIACHE (All India Association for Christian Higher Education), New Delhi, in recognition of his services rendered to the Institution as well as to the students.

(b) Fellowships/Visiting Professorship, etc.

Mr. Sajo Naik, visiting fellowship at Jawaharlal Nehru Centre for advanced scientific research, Bangalore with Prof. C.N.R. Rao.

(c) Any other special achievement by student/staff

1. The College won the overall championship for securing the highest number of prizes in the University Youth Festival held in February, 2000.

2. Our N.C.C. Cadet, Mr. Prasad Pascal D'Silva was selected at the All India Level to visit Argil.

3. In Athletics the girls and boys won individual medals.

4.4. S.S. **DEMPO COLLEGE OF COMMERCE AND ECONOMICS, PANAI.**

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

S.L. Sardesai, M.A., *Principal*, Economics
A. Rangnekar, M.Sc., *Vice-Principal*, Geography
A.P. Kamat, M.A., *Lecturer*, Economics
S.J. Pai, [M.Com.](#), *Lecturer*, Commerce
V.H. Borkar, M.Sc., *Lecturer*, Mathematics
V.R. Naik, Ph.D., *Lecturer*, Economics
N. D'Souza, M.A., *Lecturer*, Economics
D.B. Naik, M.A., *Lecturer*, Environment
M. Pilgaonkar, M.Phil., *Lecturer*, English
A. J. Pinto, M.Phil., *Lecturer*, English
Prisca Braganza, M.Phil., *Lecturer*, Commerce
P.P. Naik Gaonkar, [M.Com.](#), *Lecturer*, Commerce
D.D. Rodrigues, [M.Com.](#), *Lecturer*, Commerce
Aruna Mesquita, [M.Com.](#), *Lecturer*, Commerce
J. Menezes, [M.Com.](#), *Lecturer*, Commerce
S. Mandrekar, [M.Com.](#), *Lecturer*, Commerce
S. B. Kamat, [M.Com.](#), *Lecturer*, Commerce
K.N. Joshi, M.Sc., *Lecturer*, Mathematics
S.Jadhav, M.C.M., *Lecturer*, Computer
Gauri Tamba, FCA, *Lecturer*, Accountancy
C.Y. Ramani, FCA, *Lecturer*, Accountancy
A.S. Sangoram, FCA, *Lecturer*, Accountancy
K.D. Amlani, FCA, *Lecturer*, Accountancy
Vinod Joshua, [M.Com.](#), *Lecturer*, Accountancy
S. G. Usgaonkar, FCA, *Lecturer*, Accountancy
A. N. Panvelkar, [M.Com.](#), *Lecturer*; Accountancy
K.Desai, M.Sc., *Lecturer Computer Awareness*

4.5 **CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN, NUVEM**

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

M. Angela A.C., M.Sc., *Principal*, Chemistry
F. Mary A.C., M.Sc., *Vice-Principal*, Chemistry
Lucrecia Pereira, M.Sc., *Lecturer*, Chemistry
Matilda Madtha A.C., M.Sc., *Lecturer*, Chemistry
Cheryl Alvares, M.Sc., *Lecturer*, Chemistry
Fatima Fernandes, M.Sc., *Lecturer*, Chemistry
Molly Joseph, M.Sc., *Lecturer*, Zoology
Subhadra Devi Gadi, M.Phil., *Lecturer*, Zoology
Manoj Borkar, Ph.D., *Lecturer*, Zoology
Vinita D'Sa, M.Sc., *Lecturer*, Zoology
Sarojani Katkar, M.Sc., *Lecturer*, Zoology
Maria Lizanne A.C., M.Sc., *Lecturer*, Zoology
Marykutty Augusthy, M.Sc., *Lecturer*, Botany
N. Joseph e Mendonca, M.Sc., *Lecturer*, Botany
Mini Vijayan, Ph.D., *Lecturer*, Botany
Sulabha Phatak, Ph.D., *Lecturer*, Botany
Meena Miranda, M.Sc., *Lecturer*, Botany
Lalita N. Patil, M.Sc., *Lecturer*, Maths
Emma Maria A.C., M.A., *Lecturer*, History
Leila Ribeiro, M.A., *Lecturer*, History
Dina D'Silva, M.A., *Lecturer*, Political Science
Lolita D'Souza, M.A., *Lecturer*, Political Science
Radhika S. Nayak, M.A., *Lecturer*, Economics
Glancy Borges, M.A., *Lecturer*, Economics
Maria Luiza Valladares, M.A., *Lecturer*, English
Nizia Barbosa, M.A., *Lecturer*, English
Roxana A. Singh, M.A., *Lecturer*, English
Jayashree Anand, M.Phil., *Lecturer*, English
K.J. Augusthy, M.A., *Lecturer*, Economics
Rajendra, M.Phil., *Lecturer*, Physics
Efrem D'Sa, M. Phil., *Lecturer*, Physics
Gladys Mony, M.Sc., *Lecturer*, Maths
Nora Govil, M.A., *Lecturer*, Psychology
Christabel Faria, M.A. *Lecturer*, Psychology
Aldina Braganza, M.A., *Lecturer*, Psychology
Shobha Verenkar, Ph.D., *Lecturer*, Hindi
Akalpita R. Dessai, M.A., *Lecturer*, Konkani
Que,enie Vic.gas, M.A., *Lecturer*, Konkani
M. Aradhana A.C., [M.Com.](#), *Lecturer*, Corn.
Sumathi Balakrishna, M.Phil., *Lecturer*, Corn.
Gladys Monterio, [M.Com.](#), *Lecturer*, Commerce
Sajani D'Costa, [M.Com.](#), *Lecturer*, Commerce
A. Satardekar, [M.Com.](#), *Lecturer*, Commerce
S.Thomas. M.C.A., *Lecturer*, Computer Awareness
L.Ann Sequeira, M.A., *Lecturer*, Political Science
P. P. Singh, L.L.M., *Lecturer*, Law
Maria Lourdes Fernandes, M.A., *Lecturer*, French

4.5.5 Seminars/Conferences/Workshops, etc.

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

Autonomy for affiliated Colleges in Goa:Its implications. 28.11.1999 and 29.11.1999, UGC, Carmel College.

How to set objective type questions and question papers for Univ.Exam, 9.3.2000, 10.3.2000 and 11.3.2000, Carmel College, Carmel College.

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

Manoj R. Borkar (i) Pune University Indian Science Congress. Pune, December, 1999, *Ultrastructural alterations shown by different cell types of the anterior pituitary of female albino rats under the treatment of estrudid vaferate*, (ii) International Conference on probing in Biological system, Institute of Science, Mumbai-32, 7.2.2000 to 11.2.2000, *Fine structure of the prolactin*

cell of the female albino rat as affected by some anti fertility drugs. A comparative electron microscopic study. Abstract 54, proceedings of the Conferences.

4.5.6 Publications: (a) Research Articles: (Name of teacher, *Title*, Journal, Volume, Month/Year)
Manoj R. Borkar, Uttar Pradesh Journal of Zoology, Cytoarchitecture of the adendyp ■Rysical Fol-
Licuo-stellate cell of the male fat headed rat. *Tylonycteris pachypus* (Temminck), In Press.

4.5.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

(i) Nunes Ana Catharine, 2nd Rank, University Exam (ii) D'Souza Daisy Succorina, 3rd Rank, University Exam.

4.5.10 Any other Information:

7 girls represented the Goa University at the Inter-University football tournament, Kottayam, Kerela.
Winners — Under 19 football Championships.

4.6 MURGAON EDUCATION SOCIETY'S COLLEGE OF ARTS & COMMERCE, ZUARINAGAR.

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

M.S. Kamat, M.A., *Principal*, Economics
H. T. Nagvenkar, M.A., *Principal*, Economics
K.S. Nairi, M.A., LL.M., *Lecturer*, Economics
Rekha Gaonkar, Ph.D., *Lecturer*, Economics
Meenakshi Gedam, M.Phil., *Lecturer*, Economics
Harsha Shirwaikar, M.A., *Lecturer*, Economics
D.A. Kamat, M.Sc., *Lecturer*, Maths & Statistics
Y.Rodrigues, M.Sc., *Lecturer*,
Mathematics/Statistics

S.N.D. Poojary, M.A., *Lecturer*, Philosophy
Rashmi Bhargava, Ph.D., *Lecturer*, Psychology
M.C. Rodrigues, Ph.D., *Lecturer*, Political Science
A.M. Sambargi, M.Phil., *Lecturer*, Political Science
B.S. Ingalhalli, M.A., *Lecturer*, Geography
M.L. Pednecar, M.Phil., *Lecturer*, Commerce
B.V. Kolekar, *M.Com.*, *Lecturer*, Commerce
V.V. Sail, M.Phil., *Lecturer*, Commerce
J. Borges, M.A., *Lecturer*, Hindi
Narendra M. Naik, M.A., *Lecturer*, Marathi

R.B. Patil, Ph.D., *Lecturer*, Sociology
Sonal Thakkar, M.A., *Lecturer*, Sociology
Jessy Crasto, M.A., *Lecturer*, Sociology
S.Bhandare Sequeira, M.Phil., *Lecturer*, English
Cidalia Bodade, M.Phil., *Lecturer*, English
Prakash Pawar, FCA, *Lecturer*, Accountancy
S. Faria, *M.Com.*, *Lecturer*, Accountancy
R. Kharangate, *M.Com.*, *Lecturer*, Accountancy
S. K. Shirodkar, *M.Com.*, *Lecturer*, Accountancy
L. Joshi, MBA, *Lecturer*, Business Management
Ulhas Shetye, LLB, *Lecturer*, Business Law
S. Kadam, M.Sc., *Lecturer*, Computer Awareness
Cosma Fernandes, M.A., *Lecturer*, Konkani
Champa Parab, *M.Com.*, *Lecturer*, Commerce
Sonali Thorat, *M.Com.*, *Lecturer*, Commerce
Ashish Joshi, *M.Com.*, *Lecturer*, Commerce
Savia Mendes, *M.Com.*, *Lecturer*, Commerce
P.A. Borgave, M.P.Ed., *Sports Di.r*, Physical Edn.

4.6.4 Highlights of the research activities:

Many staff members are actively involved in research work. Dr. R. B. Paul, Reader and Head, Department of Sociology in association with Dr. Ganesha Somayaji, Reader, Department of Sociology, Goa University has undertaken a minor project on Migration Work and Society: A study of Migrant Labour in Goa. This project is sponsored by CDI Centre, (Ford Foundation Programme) M.E.S. College. The project is in the final stage of completion. Dr. R. B. Patil's research based papers were published in journals like Samaj Shodhana and in a book. Perspectives on Indian Women. The then Vice-Principal H. T. Nagvenkar, Head, Department of Economics was very vigorously and actively involved in research work leading to Ph.D. during the last few years. His subject of research was Salt and Goan Economy during the Portuguese Regime. He submitted the thesis to Goa University in September, 1999. Prof. (Mrs.) Sandhaya Bhandari, Head, Department of English was also intensively involved in research work leading to Ph.D. on a topic, James Reaney and Pundalik Naik: A comparative study. She has submitted her thesis for the award of Ph.D. degree to the Goa University. Dr. Rekha Gaonkar, Department of Economics has also published many research based articles in some journals like Indian journal of Labour Economics, Indian Economic Journal etc. Miss Janet Borges, Lecturer in Hindi was also involved in research work for her M.Phil degree.

4.6.5 Seminars/Conferences/Workshops, etc.

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

Cidalia Bodade (i) *Rosary College, Margao, Marketing of Tourism in Goa* and (ii) *An Insight into the Women's Psyche with relation to Empowerment of Women.*

Rekha Gaonkar (i) *Indian Society of Labour Economics*, Indira Gandhi Institute of Development & Research, 18th to 20th November 1999, *Women in the Emerging Labour Market* and (ii) *Indian Society of Economics*, Guru Nanak Dev. University, 27th to 29th December 1999, *Banking Sector Reforms: An Evaluation.*

R. B. Patil (i) *Gulbarga University, 7-8 Aug'99, Sociology Today in India: Some issues and concerns* and (ii) *St. Aloysius College, Mangalore, 4-5 Dec' 99, Problems of the Aged in Goa: Some Reflections.*

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

R. B. Patil, *Personality Development organized by Educational Resource Centre, New Delhi.* Hyderabad, 12th to 17th February, 2000.

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

Vasant V. Sail, *Orientation/Refresher Courses — A Participants Evaluation*, The University News, 37 No.15, 12.04.1999.

R. B. Patil (i) *Karnataka Rajya Raitha Sangha: From a Movement to a Political Party*, Samaja Shodhana, 1 & 2, March and Oct'99. and (ii) *Problems of the Aged in Goa: Some Reflections*, Samaja Shodhana, 8 No.2, Oct '99.

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

R. B. Patil, Rekha Gaonkar & Ganesha Somayaji, *Women in Development: Some Reflections*, edited by R. S. Tripathi and R.P. Tiwari, New Delhi: A.P.H. Publishing Corporation, 1999.

4.6.10 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(b) Sports: (Name of Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual))

Navnath Govekar, Gold, Weight Lifting

Navnath Govekar, Gold, Power Lifting

4.6.11 Any other information:

Dr. R. B. Patil was recognized as a guide for Ph.D. Degree by the Goa University.

4.7 SHREE DAMODHAR COLLEGE OF COMMERCE AND ECONOMICS, MARGAO

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

I. Bhanu Murthy, *Principal*

G.M. Prabhudesai, M.A., *Offg. Prin.*, Economics

G. G. Kondli, M.A., *Lecturer*, Economics

L. Menon, M.A., *Lecturer*, Economics

P.D. Mallaya, M.Phil., *Lecturer*, Economics

M. S. D'Costa, M.A., *Lecturer*,

Economics Lira Menezes Gama, M.A., *Lecturer*,

Economics B.P.S. Chandran, M.Phil., *Lecturer*,

Economics U.N. Pulapaka, [M.Com.](#), *Lecturer*,

Commerce A.R. Neelgar, M.Phil., *Lecturer*,

Commerce

N.Gopinathan, M.Phil., *Lecturer*, Commerce

S. Bhat K.M. [M.Com.](#), *Lecturer*, Commerce

Lina Kamat, [M.Com.](#), *Lecturer*, Commerce

Shami R. Pai, [M.Com.](#), *Lecturer*, Commerce

Anjali R. Virkar, [M.Com.](#), *Lecturer*, Commerce

Manoj Kamat, [M.Com.](#), *Lecturer*, Commerce

S. P.Sawant Dessai, [M.Com.](#), *Lecturer*,

Commerce

Pooja Prabhudesai, [M.Com.](#), *Lecturer*, Commerce

S.G. Prabhudesai, M.Phil., *Lecturer*, Commerce

Monica D'Mello, [M.Com.](#), *Lecturer*, Commerce

J.M. Rebello, M.A., *Lecturer*, English

Florence Rebello, M.A., *Lecturer*, English

V.G. Patil, M.Sc., *Lecturer*, *Mathematics & Stat.*

M.E. Rebello e Abranches, M.Sc., *Lect*, Maths & Statistics

N.G. Nayak, M.Sc., *Lecturer*, Maths & Statistics

J.M. Verlekar, F.C.A., *Lecturer*, Accounts

V.F. Chimulkar, F.C.A., *Lecturer*, Accounts

P.P. Singh, LL.M., *Lecturer*, Business Law

A. M. Redkar, LL.M., *Lecturer*, Business Law

Sharmila Kunde, B.E., *Lecturer*, Infotech

G Shenoy, PGDCA, *Instructor*, Computer Science

A. Pimenta, M.C.A., *Lecturer*, Computer Science

R. Shetye, B.E., *Lecturer*, Computer Science

K.G. Desai, M.C.A., *Lecturer*, Computer Science

Sunil Naik, M.Sc., *Lab.Assistant*, Computer Science

Deepa Pujari, B.E., *Instructor*, Computer Science

4.7.5 Seminars/Conferences/Workshops, etc.

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

Joan M. Rebell^o, *Seminar on: Tourism in Goa: A Balance Sheet*, Rosary College Navelim, April 2000, *MIGRANT CHILDREN — Vis-a-vis the tourists in Goa.*

Manoj Kamat (i) *Seminar on: Tourism in Goa: A Balance Sheet*, Rosary College Navelim, April 2000, *Aspects, Problems & Prospects of Tourism Potential in Goa* and (ii) *Seminar on: Tourism in Goa: A Balance Sheet*, Rosary College Navelim, April 2000, *Time share a Global Phenomenon, Relevance to Goa.*

4.7.10 Any other information:

1. Trevor D'Souza, Charles and Faizal Solonki won medals in Weight Lifting and Power and Body Building at Inter Collegiate Competitions.
 2. Prescilla Dias won Gold Medal at the All India Taekwondo Championship held at Rajasthan.
 3. T. Verlekar, K.Verlekar. D. Dhumatkar attended at the All India Women's Sports Festival. Cdt. R. Fernandes (Navy) attended all the phases of NAUSANIK CAMPS at Udyavar, Bangalore and Vishakapattanam. Cadet Bhimrao Shahapurkar attended the Pre-Republic Day Camps. JOUO Janami Manohar (Army). SGT Nilesh Gawande and CPL Suraj Chari participated in a 20 day National Integration Camp at Jodhpur in Rajasthan in Nov'95. 2/Lt. Sanjay P. Sawant Desai was in charge of 1 Goa Battalion for 12 day Basic Leadership Camp, Belgaum in August 1999.
- N.S.S. The College team represented Goa University at the Xth All India Inter University Youth Camp 14-19 Dec.'99, at Vishwa Bharati Shantiniketan, West Bengal. The team has won the 1st Prize (Folk Dance). Ms. Florence Rebello (Programme Officer) accompanied the Team.
- Extra — Curricular Activities The College org. the Inter Collegiate U. N. Bene Inter Collegiate Quiz on 15.1.2000. The College Team was the Winners of the Quiz for the first time. The Smt. Le-elabai Satpute Memorial All Goa Poets Meet was organized by this College on 28.01.2000. It was attended by the Poets from all over Goa. The College team won the First Place in Konkani and Marathi Categories.
- Mr. Ralph Dias and Mr. Deepak Row both of F.Y. [B.Com.](#) won the 2nd place at the Debating competition held by Government College, Kandola. At the Kayajagar organized by the same College. Mr. Vishal Tripathi of S.Y. B.C.A. won the 2nd place in the Hindi Poetry and Mr. Sachin Desai won the 3rd place in the Konkani Poetry.
- Mr. Vishal Tripathi of S.Y.B.C.A. got the 1st Place in Hindi Poetry, Mr. Ralph Dias of F.Y. [B.Com.](#) got the 1st prize in English poetry category. Miss Gauri Kamat was given a prize for the Best poem at the Kavi Sammelan organized by C.E.S. College, Cuncolim.
- The College Team bagged 1st Prize in the Quiz Competition (Youth Festival organized by Goa University) February, 2000.
- Mr. Ralph Dias and Miss Alfa Carvalho won the 1st Place at the Elocution Competition held by G.V.M's College of Commerce, Ponda.
- Miss. Andrea Barreto of T.Y. [B.Com.](#), won the 1st place at the Elocution Competition held by the Goa Travel and Tourism Department.
- The National Assessment and Accreditation Council awarded Three Star Level to this college.

4.8 D.M'S COLLEGE OF ARTS, SOU. SHEELA PREMANAND VAIDYA COLLEGE OF SCIENCE AND V.N.S. BANDEKAR COLLEGE OF COMMERCE, MAPUSA.

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

R.D. Arsekar, M.A., LLB., <i>Principal</i> , Economics	A. Haladi, M.A., <i>Lecturer</i> , Economics
S.H. Kulkarni, M.Phil., <i>Vice-Principal</i> , Commerce	M. Shanthi, M.A., <i>Lecturer</i> , English
X.P. D'Souza, M.A., <i>Lecturer</i> , Economics	S.B. Karapurkar, M.C.A., <i>Lecturer</i> , Comp. Sci.
Prashant V. Kadarn, M.A.: <i>Lecturer</i> , Economics	Shaila Nair, M.C.A., <i>Lecturer</i> , Comp. Sc.
S.A. Diwan, M.Sc., <i>Lecturer</i> , Statistics	Sangeeta Naik, M.C.A., <i>Lecture</i> , Comp. Sc.
Jacob Varkey, M.A., <i>Lecturer</i> , History	Sameer M. Patil, M.Sc., <i>Lecturer</i> , Electronics
E.J. D'Lima, M.Phil, <i>Lecturer</i> , English	Sunoj P. Raicar, M.Sc., <i>Lecturer</i> , Electronics
Amelia James Fernandes, M.A., <i>Lecturer</i> , English	V.G. Desai, M.Sc., <i>Lecturer</i> , Chemistry
S.B. Dharwadkar, M.Phil, <i>Lecturer</i> , Geography	S.Parvez Mohammed, M.Sc., <i>Lecturer</i> , Physics
T. Reena Devi, M.Com. , <i>Lecturer</i> , Commerce	Parab Yoganand Vassu, M.Sc., <i>Lecturer</i> , Physics.
S.D. Patil, M.Com. , <i>Lecturer</i> , Commerce	Abhyankar G.G. B.E., <i>Lecturer</i> , Electronics.
M.V. Subhedar, M.Sc., <i>Lecturer</i> , Physics	

M.R. Patil, M.Phil, *Lecturer*, Commerce
 S. F. Shirodkar, [M.Com.](#), *Lecturer*, Commerce
 P. Talpalkar, [M.Com.](#), *Lecturer*, Commerce
 R.V. Dukle, F.C.A., *Lecturer*, Accountancy
 S.P. Morajkar, [M.Com.](#), *Lecturer*, Accountancy
 Redkar R. R. [M.Com.](#), *Lecturer*, Commerce
 Kuncolienkar S.R. M.Sc., *Lecturer*, Mathematics.
 Mascarenhas A. M.P.E., *Director*, Physical Edn.
 Pawar P. P. F.C.A., *Lecturer*, Accountancy.
 Dhavjekar G. Tukaram, LLB, *Lecturer*, Law.
 Joshi D. Vaman, F.C.A., *Lecturer*, Accountancy.
 Kamat S.J. F.C.A., *Lecturer*, Accountancy.

Pokle A. M., MCA, *Lecturer*, Computer Science.
 Naik Sanjay Madhu, M.A., *Lecturer*, Hindi.
 Lad Pradip Dattaram, A.C.A., *Lecturer*, Taxation.
 Pednekar R. M. M.Sc., *Lecturer*, Chemistry.
 Varerkar M. Vanamali, M.A., *Lecturer*, History
 Rane U.V. M.Sc., *Lecturer*, Computer Science
 Fernandes M. JA., M.Sc., *Lecturer*, Computer Sc.
 Varsha M. Natekar, M.Sc., *Lecturer*, Chemistry
 Alve Mitendra D.B.E., *Lecturer*, Computer Sc.
 Ferrao Anna Rovina, M.A., *Lecturer*, Economics
 Sirsat P. R. [M.Com.](#), *Lecturer*, Accountancy

4.8.2. Highlights of the research activities:

Research Activities: Dr. (Miss) Vidya G. Desai, was awarded Ph.D. degree in Chemistry by Goa University in October, 2000. Topic: Synthetic studies in Biologically Active Compounds. Research Guide: Dr. Santosh G. Tilve. Research Work: The thesis work is divided into 3 chapters. (1) Synthetic studies in carbaroles and pyridocarbaroles. (2) Synthetic studies in Isoxazoles. (3) Intramolecular wittig reactions: Synthesis of conmaives and 2-quinolones.

4.8.5 Seminars/Conferences/Workshops, etc

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

Linking Education to the needs of 21st century, 6.12.1999, U.G.C. Commerce.

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

Vidya G. Desai, *Indian Institute of Science*, National symposium in Chemistry Bangalore, 27-30 January 1999, *A novel and convenient methodology for the synthesis of 3, 5-diary! isoxazoles*.
 M. R. Patil, *Department of Commerce, Goa University and Stock Holding Corporation of India Ltd. (SHCIL), Mumbai*, International Centre, Goa, 15-17 October 1999, " *Depository and Derivatives*".

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

V.G. Desai (i) *Regioselective synthesis of carbazole precursor to olivacine*, Synthetic Communications, (ii) *A novel and convenient synthesis of 3,5 Diary! isoxazoles*, Synthetic Communications, (iii) *A convenient synthesis of 2-acyl and 2-benzoyl indoles*, Journal of chemical research (synopsis) and (iv) *Use of Intramolecular witting reactions in the synthesis of heterocycles*.
 M. R. Patil (i) *Regression Analysis of the factors influencing profitability of Urban Co-operative Banks in Govt*, Indian Journal of Commerce, Delhi, Vol. 53, Issue No. 3, July to Sept., 2000, (ii) *An Evaluation of Urban Co-operative Banks in India during 1974-75 to 1993-94*, Asian Economic Review, Vol.41 No.2, Aug '99, (iii) *Performance measurement of co-operative sector: A survey of analytical tools of Empirical Research*, Co-operative perspective, January — March, 1999 and (iv) *Liquidity, productivity and profitability analysis of Goa Urban Co-operative Bank Ltd: A SWOT Analysis*, Management Accountant, Vol. 34 No. 3, March, 1999.

4.8.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(b) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

Neville Andrade, 2nd Rank, T.Y.B.Sc.

(c) Sports: (Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual)

College Team, Silver Medal, Judo.

College Team, Bronze Medal, Power Lifting.

College Team (W), Runners Up, Handball

College Team (W), Winners, Iron Women

4.9 GOPAL GOVIND POY RAITUCAR COLLEGE OF COMMERCE AND ECONOMICS, PONDA

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

P. M. Bhende, M. Phil, <i>Principal</i> , Commerce	Meera Mayekar, M.Com. , <i>Lecturer</i> , Commerce
C.N. Phadte, M.Phil, <i>Lecturer</i> , Maths/Stats.	Smita Q. Hede, M.Phil., <i>Lecturer</i> , Commerce
Ana Falleiro, M.Phil, <i>Lecturer</i> , Maths/Stats.	Latha Menon, M.Com. , <i>Lecturer</i> , Commerce
V.Gaonkar, M.Sc., <i>Lecturer</i> , Comp. Awareness	Kanta B handari, M.Phil., <i>Lecturer</i> , Commerce
N. Kamat, M.Sc., <i>Lecturer</i> , Computer Science	Prabhakar Rane, M.Phil, <i>Lecturer</i> , Commerce
G.A. Borkar, M.Phil, <i>Lecturer</i> , Economics	G.V. Khandeparkar, LL.B., <i>Lecturer</i> , Bus. Law
M.M. Chikodikar, M.A., <i>Lecturer</i> , Economics	P.N. Maske, M.A., <i>Lecturer</i> , Politics
Geetanjali Urankar, M.A., <i>Lecturer</i> , Economics	Raina Pinto, M.Com. , <i>Lecturer</i> , Commerce
S.S. Pereira, M.Phil, <i>Lecturer</i> , English	V.P.Vernenkar, M.Com. , <i>Lecturer</i> , Commerce
R.G. Bhatt, M.Phil, <i>Lecturer</i> , English	Sarvesh Bhandari, M.Com. , <i>Lecturer</i> , Commerce
S.L. Singbal, F.C.A., <i>Lecturer</i> , Accountancy	P.G. Dandin, M.Com. , <i>Lecturer</i> , Commerce
S.B. Dessai, F.C.A., <i>Lecturer</i> , Accountancy	G.S. Badiger, Ph.D., <i>Lecturer</i> , Geography
S.P. Bhat, F.C.A., <i>Lecturer</i> , Accountancy	B.D'Silva, M.P.Ed., <i>Dir. of Physical Education</i>
P.M. Bhende, M.Phil, <i>Lecturer</i> , Commerce	

4.9.5 Seminars/Conferences/Workshops, etc

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

- G. A. Borkar and M. M. Chikodikar, *Refresher course in Economics*, Academic Staff College, Goa , University, 12/6/1999 to 2/7/1999.
- P. M. Bhende and Meera Mayekar, *Seminar on 'Commerce Education in the 21' Century'*, S. S. Dempo College, 23/10/1999 and 24/10/1999.
- P. M. Bhende, *Refresher Course in Commerce*, Academic Staff College, G.U., 23.11.1999 to 13.12.1999.
- P. M. Bhende, P. N. Maske and Meera Mayekar, *Seminar on the theme 'Human Rights in the New Millennium'*, St. Xavier's College, Mapusa, 9.3.2000 to 11.3.2000.
- P. G. Dandin and Ana Falleiro, *Seminar on 'Autonomy for affiliated colleges: its implication'*, Carmel College, Nuvem, 28.11.1999 and 29.11.1999.

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

- A. G. Jumde (i) *Second conference of Association of Indian College Principals and presented a paper on 'Role of Principals in the Administration of Institutions of Higher Education and governance of Universities'*, Goa University, 14/12/1999 and 15/12/1999 and (ii) *International Conference on 'Higher Education for Human Development'organised by the Association of Indian Universities at the Convention Centre, Jamia Hamdard, New Delhi, from 22/2/2000.*

4.9.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(d) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

C. N. Pandurang, 1" Rank, T.Y.B.Com.	Naik Vijaya Laxmi Gopal, 1" Rank, T.Y.B.Com.
Islur Raksha Govind, 1", Rank, T.Y.B.Com.	Coelho Loveena Stephen, 1st Rank, T.Y.B.Com.
Sengupta Monali, 1" Rank, T.Y.B.Com.	Naik Reena Shrikant, 1st Rank, T.Y.B.Com.
Kamat Mugdha Arvind, 1" Rank, T.Y.B.Com.	Naik Prasad Ullo, 1" Rank, T.Y.B.Com.
Fernandes S. C., 1" Rank, T.Y.B.Com.	N. M. Chandrakant, 1" Rank, T.Y.B.Com.
Ghotge Samir Purushottam, 1" Rank, T.Y.B.Com.	Verdes Leon Agnel, 1" Rank, T.Y.B.Com.
Fadte Anand Narcinha, 1 st Rank, T.Y.B.Com.	Desai Ameya Anand, 1" Rank, T.Y.B.Com.
Martis Anthony Alex, Rank, T.Y.B.Com.	Desai Jaishree Keshav, 1" Rank, T.Y.B.Com.
Verekar Gitesh Mohan, 1" Rank, T.Y.B.Com.	Mazalkar Manjiri Ramdas, 1" Rank, T.Y.B.Com.
Naik Ujwala Raju, 1" Rank, T.Y.B.Com.	Shetgaonkar Sulaksha M., 1" Rank, T.Y.B.Com.
Dalvi Priya Ramesh, 1" Rank, T.Y.B.Com.	Upadhye Prarthana V., 1st Rank, T.Y.B.Com.

(b) Sports: (Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual)

- Jivan P. Bandekar, 1st Place, Inter-Collegiate Judo Tournament.
- Rahul A. Dessai, 1" Place, Inter-Collegiate Judo Tournament.

4.10 P.E.S. COLLEGE OF ARTS & SCIENCE, PONDA.

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

A.K. Heblekar, Ph.D, *Principal*, Physics
M.V. Dixit, M.Phil, *Lecturer*, Physics
G.V.S. Kundaikar, M.Phil, *Lecturer*, Physics
S.H.P. Keluskar, M.Phil, *Lecturer*, Physics
Mandakini V. Rane, M.Sc, *Lecturer*, Physics
Sachin S. Desai, M.Sc., *Lecturer*, Physics
A.S. Dinge, Ph.D., *Reader*, Chemistry
S.D. Gokakakar, M.Sc., *Lecturer*, Chemistry
A. B. Kanolkar, M.Sc., *Lecturer*, Chemistry
R.G. Shetkar, M.Sc., *Lecturer*, Chemistry B.L.
Malik, Ph.D., *Lecturer*, Chemistry V.D. Vaze,
M.Sc., *Lecturer*, Chemistry Vikas J. Pissurlekar,
M.Sc., *Lecturer*, Chemistry Anita Tilve Manekar,
Ph.D., *Lecturer*, Chemistry Virendra S. Dangui,
M.Sc., *Lecturer*, Chemistry
B. F. Dias Barreto, M.Sc., *Lecturer*, Chemistry
Harsha Uskaikar, M.Sc., *Lecturer*, Chemistry
Seema V. Kamat, M.Sc., *Lecturer*, Botany
Kasturi N. Desai, Ph.D., *Lecturer*, Botany P.
Bhattacharya, Ph.D., *Lecturer*, Botany R. P.
Prabhu Gaonkar, M.Sc., *Lecturer*, Botany
Lynette Fernandes, M.Sc., *Lecturer*, Botany
B. Halarnekar, M.Sc., *Lecturer*, Botany
Susan Marcos, M.Sc., *Lecturer*, Zoology
A.V. Deshpande, Ph.D., *Lecturer*, Zoology
S.H. Bhosale, Ph.D., *Lecturer*, Zoology
G.P.P. Khanolkar, M.Sc., *Lecturer*, Zoology

Teja A. Gramopadhye, M.Sc., *Lecturer*, Zoology
Sunita R. Borkar, M.Sc., *Lecturer*, Microbiology
C. F.E. Fernandes, M.Sc., *Lecturer*, Microbiology
V.S. Samant, M.Phil., *Lecturer*, Maths M.N.
Kulkarni, M.Sc., *Lecturer*, Maths M.G.
Amonkar, M.Phil., *Lect.*, Comp. Awareness B.V.
Apte, M.A., *Lecturer*, English
A.V. Bhandiwad, M.Phil., *Lecturer*, Economics
J.G.R. Monteiro, M.A., *Lecturer*, Economics
K.R. Kunkolienkar, Ph.D., *Lecturer*, Philosophy
Anjali M. Rao, M.A., *Lecturer*, Philosophy
V.V. Kamat, Ph.D., *Lecturer*, History
Padmaja V. Kamat, M.A., *Lecturer*, History
P.R. Hede, Ph.D., *Lecturer*, Pol. Science
Badrudin, M.Phil, *Lecturer*, Pol. Science
V.V. Prabhudesai, M.Phil, *Lecturer*, Marathi
Deepak R. Chatre, M.A., *Lecturer*, Marathi
S. Ramaswamy, Ph.D., *Lecturer*, Hindi
Uma Priolkar, M.A., *Lecturer*, Hindi
D.M. Desai, M.P.Ed. , *Director*, Physical Edn.
Bhushan V. Bhave, M.A., *Lecturer*, Konkani
H. Chopdekar, M.A., *Part-time Lecturer*, Konkani
F. Maria Noronha, M.A., *Lecturer*, Psychology
Priya U. Sabnis, M.A., *Lecturer*, Psychology
Deepa C. Fernandes, M.Sc., *Lecturer*, Zoology
D.K. Prabhu, M.Sc., *Lecturer*, Zoology

4.10.2 Highlights α the research activities of the College

The College has encouraged the Teaching Staff to participate in the research activities under various schemes sponsored by UGC and other Govt. and Non-Govt. organisations. Six teachers have received Minor Research Grants from the UGC and one from TERI during the year 1999-2000. They are from the departments of Konkani (1), Chemistry (2), Microbiology (1), Botany (1+1) and Zoology (1). Some more have applied and their cases are under the active consideration of the UGC. The teachers in Konkani and Marathi departments are participating in the research activities through group projects on surveys and collection of various data in the State pertaining to the literature and culture in those languages. The teachers from English and History departments have conducted independent survey of places of religious and historical importance in this region. The College had earlier completed two projects of inter-disciplinary nature under the sponsorship of Dept of Science, Technology and Environment of Govt. of Goa.

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

K. N. Desai, *Managing, Monitoring and Measuring the Coastal dimension*, July 1999, *University of Trieste, Italy Consultancy*, \$ 4000.
S. R. Borkar, *Biodiversity of Alkalophiles in Natural & Man made Alkaline environments in Goa*, March/April 1999, *University Grants Commission, WRO, Pune*, Rs. 34,000.
S. V. Kamat, *Bioecological studies on Macrophytes wetlands of Goa*, March/April 1999, *University Grants Commission, WRO, Pune*, Rs. 10,000.
S.H. Bhosale, *Insect species diversity in Ponda Goa*, March/April 1999, *University Grants Commission, WRO, Pune*, Rs. 40,000.
Anita Tilve-Manekar, *Systematic Chemical Investigation of the Plant Grewia Microcos*, March/April 1999, *University Grants Commission, WRO, Pune*, Rs. 39,000.
Harsha Uskaikar, *Spectroscopic studies of complexes by jobs method*, August 1999, *University Grants Commission, WRO, Pune*, Rs. 50,000.

Bhushan Bhawe, *History of Konkani Language & Literature*, April 2000, University Grants Commission, WRO, Pune, Rs. 24,000.

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

Vidya V. Prabhudesai, Marathi, *Gomantakiya Marathi Kadambari-Prior to 1999*.

4.10.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(b) Sports: (Name of Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual))

College Team, 2	Pratima Borkar, Silver, Judo
Gold, 3 Silver, Judoka	Swami Bhavani, Gold, Best Judoka, Judo
College Team (M), 2 Gold, 1 Silver, Swimming	Sandeep Karelkar, Gold, Judo
College Team (M & W), Runners-Up, Kabaddi	Akhandkar Padmanabh, Bronze, Judo
Keshav D. Naik, 2 Gold, 1 Silver, Swimming	Swami Bhavani, Runners-Up, Shuttle Race
Gaude Vinayak, Gold, Judo	Sudesh Gaude, Runners-Up, shuttle Race
Gaude Anil, Silver, Judo	
Caldeira Joyous L, Silver, Judo	

4.10.10 Any other information

Under the efficient and enthusiastic guidance of Prof. D. M. Desai, Director of Physical Education, Advisor Prof. V. D. Vaze of the Department of Physical Education in co-operation with all other teaching and non-teaching staff members started the Gymkhana activities from the first week of July, 1999. To select various teams participating a various Inter-Collegiate tournaments like Table Tennis, Badminton, Chess, Judo, Kabaddi, Kho-Kho, Volleyball, Cricket, Football, (Men and women) and got valuable experience and enriched their skills and talents.

(1) Swimming (Men) team won group championship title in Inter-Collegiate Championship organized by Goa University. (2) Judo (Men and Women) team won group Championship organized by Goa University. (3) Kabaddi (Men and Women) Runners Up in Inter-Collegiate Championship organized by Goa University. (4) Kho-Kho (Women) reached semifinal in Inter-Collegiate Championship organized by Goa University. (5) Chess team reached semi final in Inter-Collegiate Championship organized by Goa University. Miss Redkar Anuradha from S.Y.B.A. selected to play Inter-University Cricket Tournament organized by All India University and West Zone National at Ahmedabad. The Department of Physical Education of P.E.S. College organized one day hiking expedition at Chandreshwar Bhuthnath Parvat, Quepem Goa on 28th August, 1999 and we get large response about 50% students participated for hiking it is successful. The Inter-Collegiate tournaments we are participate in cricket, kabaddi, kho-kho, table tennis, volleyball, athletics, chess, football, (men and women). The XIVth College Athletic meet organized by Department of Physical Education on 9th December, 1999 on our own college ground successful.

4.11 NAVAL ACADEMY, INS MANDOVI, VEREM

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

Cdr NVS Raju, M.Sc., <i>Principal</i>	Lt P. Goel, M.Sc., <i>Instructor</i> , Physics
Lt Cdr TVSSAN Murthy, M.Sc., <i>Vice-Prin</i> , Chemistry	Lt Cdr S. Chakraborty, M.Sc., <i>HOF</i> , Physics
Lt Cdr M Anand, M.Sc. <i>Instructor</i> , Maths	Lt Sushma Rana, B. Tech., <i>Instructor</i> , Physics
Lt Cdr Indu Prakash, M.Sc., <i>HOF</i> , Met. Oceanography	& Lt Babita Rawat, M.Sc., <i>Instructor</i> , Physics
Lt Cdr PJ Singh, M.Sc., <i>Instructor</i> , Maths	Lt Punam Pant, M.Sc., <i>Instructor</i> , Physics Lt
Lt Shalini Kansal, B.Tech, <i>Instructor</i> , Maths	John Joseph, M.Sc., <i>Instructor</i> , Physics Lt
SLt Nidhee Sharma, M.Sc., <i>Instructor</i>	Edwin Rajan, M.A., <i>Instructor</i> , English SLt
Tamal Guna, M.A., <i>Instructor</i> , English	AKNS Swaminath, MCA., <i>Instructor</i> SLt
	Shruti Dhawan, M.Sc., <i>Instructor</i> , Chemistry

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

Fr. R. D'Souza, Goa Institute of Management, *Ethics & Morality*, 14 February 2000.

Comde Sanjoy Gupta VSM, Indian Navy, *Role of Naval Aviation in 21st Century*, 17 April 2000.

Padmashri Gulshan Rai, Dy. Commissioner Customs, *Sailing around the world*, 18 July 2000.

R.P. Kaushiva UYSM, VSM, Dy. Commandant NDA, *Scientific temper and Leadership*, 30 Sept' 00.

4.12 C.E.S. COLLEGE OF ARTS & COMMERCE, CUNCOLIM.

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

D.L. Naik, M.A., *Principal*, History
L.G.Naik, [M.Com.](#), LL.B., B.Ed., *Actg. Prin.*,
Commerce
S. S. Nadkarni, M.Phil., *Lecturer*, Accountancy
A.Rodrigues, [M.Com.](#), *Lecturer*, Accountancy
S.N.Kunkolienkar, [M.Com.](#), *Lect.*, Accountancy
Suraj M. Popker, [M.Com.](#), *Lecturer*, Accountancy
S. V. Katageri, M.A., *Lecturer*, Political Science
T. M. N. Gaunekar, M.A., *Lecturer*, Political Sc.
Savita Cardozo, M.A., *Lecturer*, Political Science
Anand S. Dessai, M.Sc., *Lecturer*, Mathematics
Gaus Khan Usman Khan, M.Lib.I.Sc., *Librarian*
C. R. S. Sancordenkar, M.A., *Lecturer*, Hindi
Apoorva A. Marathe, M.A., *Lecturer*, Economics
Avinash V. Raikar, M.A., *Lecturer*, Economics
M. F. Monteiro, M.Phil., *Lecturer*, English
P. R. Morakar, M.Phil., *Lecturer*, Geography
S. V. Prabhu Shastri, M.A., *Lecturer*, Geography
Sushama S. Salokhe, M.A., *Lecturer*, Marathi
Nityanand B. Naik, M.A., *Lecturer*, Konkani
E. P. Fernandes, LL.M., *Lect.*, Business Law
R. S. Vernekar, M.P.Ed., *Dir.*, Physical Education
Sucorina E D'Cunha, M.A., *Lecturer*, Sociology
Dominic S. Fernandes, M.A., *Lecturer*, History

4.12.6(a) Publications (Research Articles): (Name of Teacher, *Title*, Journal, Volume, Month/Year)
Savita S. Nadkarni, *A Model Mix between Mini & Large Buses*, Indian Journal of Transport Management, 24 No.I, January 2000.

4.12.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(b) Sports: (Name of Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual))

College Team, Gold Medal, Weight Lifting College Team, Gold Medals, Power Lifting

4.13 GOVERNMENT COLLEGE OF ARTS, SCIENCE & COMMERCE, SANQUELIM

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

B.A. Gomes, Ph.D., *Principal*, Economics
Lucy James, M.A., *Sr. Lecturer*, English
P. N. Thomas, M.Sc., *Sr. Lecturer*, Botany
R. K. Tan, M.Sc., *Sr.Lecturer*, Botany
D. Arolkar (on lien), Ph.D., *Sr. Lecturer*, Geology
Anil Karambelkar, M.Sc., *Sr. Lecturer*, Geology
Sowmini Thomas, M.Sc., *Sr. Lecturer*, Zoology
K.S. Muralidhar, Ph.D., *Sr. Lecturer*, Zoology
Preethi Thomas, M.Sc., *Lecturer*, Zoology
Vaibhav Chindarkar, M.Sc., *Lecturer*, Zoology
J.P.P. Pacheco, M.Sc., *Sr. Lecturer*, Chemistry
Ashok Chodankar, M.Sc., *Sr. Lecturer*, Chemistry
J. Bhattacharjee, Ph.D., *Sr.Lecturer*, Chemistry
Purnakala Samant, Ph.D., *Lecturer*, Chemistry
Varsha Sail, M.Sc., *Lecturer*, Chemistry
Jyoti Sawant, M.Sc., *Lecturer*, Chemistry
N.B. Bhat, M.Phil, *Sr. Lecturer*, Physics
S. Jahagirdar, M.Phil, *Sr.Lecturer*, Physics
Aga D.A. M.Phil. *Lecturer*, Physics
Nilesh Natekar, B.E., *Lecturer*, Computer Science
Avinash Patil, B.E., *Lecturer*, Computer Science
Shubha Kamat, B.E., *Lecturer*, Computer Science
L. Da Costa, M.C.A., *Lecturer*, Computer Science
C. Rao, [M.Com.](#), *Sr.Lecturer*, Commerce
Manda Patil, [M.Com.](#), *Lecturer*, Commerce
Sneha Mahambre, M.Phil., *Sr. Lecturer*, Marathi
M.B. Gosarwadkar, [M.Com.](#), *Sr.Lect.*, Commerce
Vanita Path, [M.Com.](#), *Lecturer*, Commerce
Mahendra Pednekar, M.Sc., *Lecturer*, Physics
D.G. Bandiwadkar, M.Sc., *Sr.Lecturer*, Maths.
Santosh Get rge, Ph.D., *Lecturer*, Mathematics
R.Wagh, M.C.A., *Sr.Lecturer*, Computer Science
Gervasio Mendes, M.A., *Sr.Lecturer*, Economics
Agnela Dias, M.A., *Lecturer*, Economics
Shilpa Satoskar, M.A., *Lecturer*, Economics
K.K. Bable, M.P.F.d., *Director*, Phy. Education
K.R. Badiger, Ph.D., *SrLecturer*, Geography
Josephine Dias, M.A., *Lecturer*, Geography
Maria Helena Souza, M.Phil, *Sr.Lecturer*, English
S. Jamkhandi, M.A., *Lecturer*, English
Sayed A. S.M., M.Phil, *Sr.Lecturer*, Political Sc.
Rekha Mishra, M.A., *Sr.Lecturer*, History
S.A. Joshi, Ph.D., *Sr.Lecturer*, Hindi
Sunita Kanekar, M.A., *Sr.Lecturer*, Konkani
Norma Rebello, Ph.D., *Sr. Lecturer*, Philosophy
Prashant Bhonsle, [M.Com.](#), *Lecturer*, Commerce.
R.Divakar, [M.Com.](#), *Lecturer*, Commerce

4.13.2 Highlights of the research activities

J. P. P. Pacheco, Sr. Lecturer in the Chemistry Department is doing research on "Stability studies on metalnitrilo-triacetate complexes and its application in electroless plating of FI-NA alloy.

Gervasio Mendes, Sr. Lecturer in Economics is reading for Ph.D.
Rekha Mishra is pursuing research on 'The Role of the Press during the Portuguese rule'.
Sneha Mahambre of the Dept. of Marathi is doing research on Modern Marathi Poetry (from 1950).

4.13.5 Seminars/Conferences/Workshops etc.

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

"*Management of Garbage & Solid Waste*", 14th and 15th March 2000, *B.A.LF., Pune, Geography Department, Govt. College, Sanquelim.*
AIDS Awareness and role of N.S.S., 26.08.2000, *N.S.S. Units of Govt. College, Sanquelim and G.U.*
Organized a Seminar and arranged a paper reading by Dr. Ravindra Mishra, 18.11.1999,
Contribution by students, Hindi Department, Govt. College, Sanquelim.
Organized a Seminar on Kabir, 11.10.2000, *Self-Sponsored by All Goa Hindi Lecturers from Colleges*,
Hindi Department, Govt. College, Sanquelim.
Organised a Seminar on Revaluation of F. K. S. Y. question papers of previous years, 11.10.2000, *Hindi Department, Govt. College, Sanquelim.*
Organised Seminar Papers pattern, 17.08.2000, *Marathi Dept. Govt. College, Sanquelim.*

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

Sanjay Jahagirdar, *Department of Geography, Govt. College, Sanquelim, Sanquelim*, 14-15 March 2000, *Non-biodegradable waste i.e. Plastic.*
Norma Menezes, *Rosary College, Navelim, International Centre, Donapaula*, 7-8 April 2000, *The future of tourism.*
Josephine Dias, *Department of Geography, Govt. College, Sanquelim, Sanquelim*, 14-3-2000, *Garbage a growing menace.*
R. K. Tan, *Department of Geography, Govt. College, Sanquelim, Sanquelim*, 14-3-2000, *Garbage as a resource (Biodegradable waste).*
S. A. Joshi, *Goa University and Hindi Bhasha Parishad, Goa University*, 7-1-2000, *Nirgunna Bra hmasadhak Aadambar Virodhi Kabar Mein Antarviroadh:*

(b) (ii) Attended Workshops: (*Name of Teacher, Theme of Workshop, Place, Date, Title of paper*)
B. A. Gomes, *International Conference on Higher Education for Human Development, Delhi*, 22 - 24 Feb. 2000.

P. V. Samant, *International Conference on power system ICEPS-2000, Chennai India*, 9-10 Nov. 2000.
N. Menezes, *All India Christian Philosophes (ACPI) meet, Andra Pradesh (Elluru)*, 27-29 Oct. 1999.
R. K. Tan, *National Conference on Environment, Karad Maharashtra*, 28, 29 and 30 December 1999.

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

J. P. P. Pacheco, *Practical Chemistry for TY. B.Sc., Himalaya Publishing House, Mumbai*, June 2000.
J. Bhattacharjee, *Practical Chemistry for T.Y.B.Sc., Himalaya Publishing House, Mumbai*, June 2000.

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

Purnakala V. Samant, Physical Chemistry, *Catalysts for Elect ro-oxidation of Methanol*

4.13.9 Achievements: (*Ranks/Merits in the University Examinations/Sports Activities*)

(a) Academic: (*Name of Student, Achievement (i.e. rank etc), Examinations*)

Appa Dessai, 1st Rank, T.Y.B.Sc.
Santhoshi Nadkarni, P¹Rank, T.Y.B.Sc.

(b) Sports: (*Name of Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual)*)
College Team (W), 3¹⁴ Place, Cross Country race

4.13.10 Any other information:

1. Secured 3rd place in the men's Judo Championship at the same competition. The College has secured one Gold, three Silver and four Bronze Medals in the same competition.
2. Rajesh Job from T. Y. [B.Com.](#) class got over all Individual Championship for the second consecutive year in the inter-collegiate Athletic meet, 1999-2000 organised by the Goa University.

He bagged 2 Golds and 2 Silver in this Athletic meet. College Athletic team has secured 20 medals (4 Gold, 8 Silver and 8 Bronze). College Athletic team has participated in the inter-collegiate Athletic Meet organised by the St. Xavier's College Mapusa and secured 2 Silver and one Bronze medal.

3. Secured one Gold, two Silver and one Bronze medal at the State level Judo Competition, 1999-2000 organised by Ippon Judo Club, Mapusa Goa.
4. The College Kabaddi Team reached the Semi final in the inter-collegiate Kabaddi tournament, 1999-2000 organised by Goa University.
5. Miss Tina Blaggan from F.Y.B.Com. class was selected for National Judo Championship which was held at Chandigarh from 14th to 16th February 2000.
6. Organised coaching camp in Athletics and Kho-Kho during Diwali vacation at the College ground.

414 GOA COLLEGE OF HOME SCIENCE, PANAJI

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

Parvathi Rao, Ph.D., <i>Principal</i>	R. Godinho, M.Sc., <i>Lecturer</i> , Textiles & Clothing
Daisy John, M.Sc., <i>Lecturer</i> ,	R. Kunkalikal, M.Sc., <i>Lect.</i> , Foods & Nutrition
R. ShinIcre, M.Sc., <i>Lecturer</i> , Foods & Nutrition	C. Facho, M.Sc., <i>Lecturer</i> , Textiles & Clothing
S. de Cunha, M.Sc., <i>Lecturer</i> , Child Development	

415 GOVT. COLLEGE OF ARTS, SCIENCE & COMMERCE, KHANDOLA

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

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

4.15.5 Seminars/Conferences/Workshops, etc

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

Prabir Kumar Rath, *XIX INCA International Congress*, Vasco-da-Gama, 26th — 28th October, 1999, *Demographic Aspects of Goa : A Cartographic Representation.*

P. R. Vazrikar, *Seminar on Projects (Konkani)*, Rosary College, Navelim, 24th Sept.'99, *Role of projects in the development of Konkani.*

416 GOVERNMENT COLLEGE OF ARTS, SCIENCE AND COMMERCE, QUEPEM

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

Bhiskar ii. Nayak., M.A., <i>Principal</i> , Economics	Shirish D. Kamat, M.Sc., <i>Lecturer</i> , Physics
S.N. Patil, M.A., <i>Vice Princtor</i> , Geography	Narayan V. Bandodkar, M.Sc., <i>Lecturer</i> , Physics
R. George Amballoor, M.Phil., <i>Lea.</i> , Economics	Bernadette Gomes, Ph.D., <i>Lecturer</i> , Sociology
E. J. Henriques, M.A., <i>Lecturer</i> , Economics	Reyna Sequeira, M.A., <i>Lecturer</i> , Sociology
Rufina Borges, M.A., <i>Lecturer</i> , Geography	Miguel A.B.P.C. Martins, M.Sc., <i>Lecturer</i> , Maths.
Cleopha Agnes Lobo, M.A., <i>Lecturer</i> , Geography	Ehrlich D. Barreto, M.Sc., <i>Lecturer</i> , Maths.
L. M. Fernandes, M.Phil., <i>Lecturer</i> , English	Mehtab Jahan Bukhari, M.Sc., <i>Lecturer</i> , Botany
P.S. Deepa, M.A., <i>Lecturer</i> , English	C. Quadros e Coutinho, M.Sc., <i>Lecturer</i> , Botany

S. S. Mendes, M.A., L.L.B., <i>Lecturer</i> , History	Jovita Vina D'Costa, M.Sc., <i>Lecturer</i> , Botany
Remy Dias, M.A, <i>Lecturer</i> , • History	Annie E. D'Souza, M.Sc., <i>Lecturer</i> , Botany .
Vidya R. Dalvi, M.Com. , <i>Lecturer</i> , Commerce	Rajendra Rao Kulkarni, Ph.D., <i>Lecturer</i> , Zoology
S. N. Shahapurkar, M.Com. , <i>Lecturer</i> , Commerce	Sheena Jolly, M.Sc., <i>Lecturer</i> , Zoology
A. Sathish B., M.Phil., <i>Lecturer</i> , Accountancy	Juliana Silveira, M.Sc., <i>Lecturer</i> , Zoology
Purva Hegde Dessai, C.A., <i>Lecturer</i> , Accountancy	Rita Narayan Sharma, M.Phil., <i>Lecturer</i> , Zoology
P. A. Path, M.Com. , <i>Lecturer</i> , Accountancy	Beena K. Vernekar, M.Sc., <i>Lecturer</i> , Chemistry
Asha A. Mangutkar, M.A., <i>Lecturer</i> , Marathi	M. J. Menezes, M.Sc., <i>Lecturer</i> , Chemistry
Ashok D. Mangutkar, M.A., <i>Lecturer</i> , Marathi	G. A. Kelkar, M.C.A., <i>Lect.</i> , Computer Science
Bharati K. Parab, M.Phil., <i>Lecturer</i> , Hindi	Onkar L. Ainapur, M.Sc., <i>Lect.</i> , Computer Science
Brijpal Singh Galloth, M.A., <i>Lecturer</i> , Hindi	Olivia E. Pinto, B.E., <i>Lecturer</i> , Computer Science
S.P. Salgaonkar, M.A, <i>Lecturer</i> , Political Science	P. A. Rodrigues, B.E., <i>Lect.</i> , Computer Science
C. Fernandes, M.A., L.L.B., <i>Lect.</i> , Political Sc.	R. Mathew, M.P.Ed, <i>Director</i> , Physical Education
Rajay R. Pawar, M.A, <i>Lecturer</i> , Konkani	S. B. Dessai, M.A. B.Lib. & Inf. Sc., <i>Librarian</i> ,

4.16.2 Highlights of the research activities:

1. P. S. Deepa attended-a National Integration Camp held at Mavilikera, Kerala alongwith 10 students.
2. National Seminar on 'Autonomous Colleges' organized by UCTAG and Carmel College Nuvem. Dr. Bernadette Gomes, S. N. Patil, Sushila Sawant Mendes, Remy Dias, Anthony Sathish, P. A. Patil, Renji George Amballoor, Jovita D'Costa and Principal B. G. Nayak.
3. Sushila Sawant Mendes, and Remy Dias attended 4 days international conference on Goa and Portugal organised by Xaverian Centre of Historical Research and Fundacao Oriente.
4. Rajay Pawar of Konkani Dep. was selected for Travel Scholarship by Sahitya Academy, New Delhi for studying the literature and culture of Kerala.
5. Ashok Mangutkar attended All India National Integration Camp at Jodhpur, Rajasthan.
6. Linda Maria Fernandes participated in three days International Conference organized by `Lusotopie, Paris and Goa University.
7. Purva Hegde Dessai attended a National Conference of Chartered Accountants organized by Goa Chapter of Chattered Accountants.
8. Principal B. G. Nayak attended second annual conference of All India Principals.

4.16.5 Seminars/Conferences/Workshops etc.

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

Dr. Sudha Rao of NIEPA, New Delhi conducted a day long workshop on 'Communication Skills and Teacher Motivation'.

4.16.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

Jose D'Silva, 3rd Rank, T.Y.B.Sc.

(b) Sports: (Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual)
College Team (M), Winners, Power Lifting
College Team (M), Runners-Up, Weight Lifting

4.16.10 Any other Information

1. Sachin Naik was declared the strongest man of Goa University.
2. Uday Kumar Madar bagged overall 9 medals this year in various swimming competition (2 gold, 4 silver and 3 bronze).
3. Andrew Clemento bagged individual gold medal in cross-country and cycling championship organized by Goa University.

4.17 ROSARY COLLEGE OF COMMERCE & ARTS, NAVELIM

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

Newman Fernandes, M.A., L.L.B., <i>Principal</i> , Psychology	J. C. Costa, M.Com. , S.E.T., <i>Lea</i> , Corn. & Accountancy
S.Falleiro, M.A., N.E.T., <i>Sr. Lecturer</i> , Economics	C. D'Souza, M.Com. , S.E.T., <i>Lect.</i> , <i>Com.</i> & Accountancy
N. Mazumdar, M.Phil., <i>Sr. Lecturer</i> , Mathematics	Rita Braganza, M.A., <i>Lecturer</i> , History
A.Rodrigues, M.A., S.E.T., <i>Sr. Lecturer</i> , English	

F. Rodrigues e Melo, [M.Com.](#), SET., Sr. Lect.,
Corn. & Accountancy
B. Gaonkar, M.A., N.E.T., Sr. Lecturer, Konkani
R.Fernandes, [M.Com.](#), C.A., (PT) Lecturer,
Commerce & Accountancy
Afonso Botelho, M.A., S.E.T., Lea, Sociology
Priya Carvalho, M.A., S.E.T., Lecturer, English
Helic Barretto, [M.Com.](#), S.E.T., Lecturer,
Commerce & Accountancy
Sonia F. Vaz, M.A., Lecturer, Economics
T. Marchon, M.A., N.E.T., Lecturer, Psychology
J. Barreto, [M.Com.](#), S.E.T., Lect., Corn. &
Accountancy
Alison Dias, M.A., Lecturer, History

E. Almeida, M.A., S.E.T., Lecturer, Psychology
S. Fernandes, M.A., S.E.T., Sr. Lect., Geography
J.M. Alfonso, [M.Com.](#), Lect., Commerce &
Accountancy
P.Fernandes, MCA., S.E.T., Lect., Comp.
Awareness
Francis X. Lobo, M.P.Ed., SET., Ph)' Education
A. Fernandes, M.A., S.E.T., Lecturer, English
M. L.Dias, M.Lib., N.E.T., Librarian, Library
M. Kamat, M.A., N.E.T., Lecture-Basis, Konkani
L.Fernandes, B.E., Lecturer, Computer Science
A. Sakwalkar, M.C.A., Lect., Computer Science
S. Prabhudessai, M.B.A., Lecturer, Management

4.17.5 Seminars/Conferences/Workshops, etc.

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

Role of Konkani Projects in the development of Konkani, 29.10.1999, Goa Konkani Academy, Goa,
Rosary College.

Tourism in Goa: A Balance Sheet, 7th and 8th April 2000, Rosary College.

Vision & Mission of our College, 17th and 18th April, 2000, Rosary College.

Contribution of Schools to Environmental Protection in Goa, 27th February 2000, Rosary College.

Assessment & Accreditation, 13th March 2000, Rosary College.

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

Filipe Rodrigues e Melo (i) *Indian Commerce Association*, Marathawada University, Aurangabad, 29th to
31st Oct. 1999, *Emerging Dimension of Business Education in the 21st Century* and (ii) Rosary
College *Tourism in Goa: A Balance Sheet*, Goa, 7-8 April'00, *Evolution & Growth of Tourism
in Goa*.

Bhalchandra Gaonkar, *Kala Academy*, Campal Panaji, 24.10.1999, *Konkani Literature in 21st Century*.

Savio P. Falleiro, *Rosary College Tourism in Goa: A Balance Sheet*, Goa, 7th and 8th April 2000,
Tourism in Goa: A Balance Sheet.

Newman Fernandes (i) *Association of Indian Universities (Int, conference on Education-2000)*, Delhi,
10th and 11th February 2000, *Life Long Education*, (ii) *College (Tourism in Goa: A Balance
Sheet)*, Goa, 7th and 8th April 2000, *Code of Ethics for Tourism in Goa. and (iii) Madras Centre
for Research and Development of Community Edu., Chennai, 6th and 7th Feb.2000, Flexibility in
community College Education*.

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

F. Rodrigues e Melo, *Human Rights Education*, Kristu Jyoti College Bangalore, 21st to 25th May 2000. Rita
Braganza, *International Seminar Goa & Portugal*, International Centre, 6th to 9th September 1999. P.

Rocha, *National workshop for Eng. Teachers*, Kristu Jyoti College, Bangalore, 14 —20May 2000. Savio
Falleiro, *College Administration for Principal, & Vice-Principal*, Kristu Jyoti College,

Bangalore, 22nd to 27th May 1999.

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

Jim R. A. Barreto, *Trade Unionism in Goa — A case study of Goa Shipyard Ltd., and Zuari India Ltd.,
Management & Labour Studies*, 24, October 1999.

4.18 SARASWAT VIDYALAYA'S COLLEGE OF COMMERCE & MANAGEMENT STUDIES, MAPUSA

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

D. M. Deshpande, M.Phil., Principal, Commerce
Santosh Patkar, M.Phil., Lecturer, Commerce
Sukhaji Naik, [M.Com.](#), Lecturer, Accountancy
Pragati Bhonsle, [M.Com.](#), Lecturer, Accountancy
Satyajit Hirve, [M.Com.](#), Lecturer, Accountancy
S. Shrivastava, M.M.S., Lecturer, Management

Smruti Borkar, BE., Lecturer, Computer Science.
J. Churi, M.P.Ed., Director, Physical Education
Divakar Joshi, A.C.A., Lecturer, Accountancy
Archana Kanekar, M.A., Lecturer, Economics
Ira Bhattacharya, M.Phil., Lecturer, English
P. Tamhankar, M.Sc., Lecturer, Maths. & Stat.

Sterol Godinho, M.Com., *Lecturer*, Management
Sharmila Borkar, M.A., *Lecturer*, Economics
Henriques D'Souza, M.A., *Lecturer*, Economics,

Sajo V. Gawas, L.L.M., *Lecturer*, Law.
Mallika Fernandes, M.Sc., *Lecturer*, Geography

(b) (i) Attended: Seminars/Conferences: (Teacher, *Theme of Conf*, Place, Date, *Title of Paper*)
P. Tamhankar, A. Kanekar, S. Patkar, J. Churi, *State level Seminar on Autonomy for affiliated colleges in Goa*, Carmel College Nuvem, 28.11.1999 — 29.11.1999, '*Its Implications*'.
D. M. Deshpande, S. Borkar, I. Bhattacharya, *State level Seminar on Human Rights in the New Millennium*, St. Xavier's College, Mapusa, 9th, 10th and 11th March 2000.
D. M. Deshpande, *UGC sponsored Seminar on Impact of Refresher Course in respective subjects on the overall results of the University Examination*, Dr. Babasaheb Ambedkar Marathwada University Aurangabad, 27.03.2000— 28.03.2000.
Santosh Patkar (i) *Seminar Linking Edu. To the needs of Industry in 21 Century*, Bandekar College Assagao, 5.12.1999, (ii) *2nd Youth Konlcani Literary Conference*, PES College of Arts & Science Farmagudi Ponda, 11th and 12th Dec.'99 and (iii) *Training Course by ICSSR New Delhi on Computer application in Social Sciences*, Surat, 25.10.1999 to 03.11.1999.
Jayesh Churi, *Goa University XIVth Inter-Collegiate Athletic Championship 1999-2000*, Chikhalim Ground, 17-19 Jan.'00.

4.19 FR. AGNEL COLLEGE OF ARTS AND COMMERCE, PILAR

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

Bibial G. Dias, Ph.D., *Principal*, Political Science
Mario D'Souza, M.B.A., *Lecturer*, Economics
Mini Gangadharan, M.A., *Lecturer*, Economics
Annie Shakoor, M.A., *Lecturer*, English
Maria Da'Cruz, M.A., *Lecturer*, English
Nazarana Shaik, M.A., *Lecturer*, Political Science
Hazel Colaco, M.Com., *Lecturer*, Commerce
Reji George, M.Com., *Lecturer*, Commerce
Ainodin Aga, LLB., *Lecturer*, Business Law

Beula Pereira, M.A., *Lecturer*, Sociology
Fr. F. Rodrigues, M.A., *Lecturer*, Sociology
Loren Diniz, M.Sc., *Lecturer*, Maths & Computer
Santosh Chyari, M.A., *Lecturer*, Hindi
Rajeshree Sail, M.A., *Lecturer*, Konkani
Antonette Mascarenhas, M.A., *Lecturer*, Konkani
A. Dias, M.P.Ed, *Physical Dir.*, Physical Edn.
Soraya Sa e Rebello, M.A., *Lecturer*, History
Esmeralda Mendes, M.A., *Lecturer*, History

4.19.2 Highlights of the research activities:

Prof. Mario D'Souza, Lecturer in Economics is at present doing M.Phil and his topic is Industrial Disputes — A case study of Goa Shipyard, Vasco. His research includes causes, consequences and settlement of Industrial disputes at Goa Shipyard Limited.

Prof. Anthony Rodrigues, Lecturer in Commerce is a Research scholar doing Ph.D. in Department of Commerce, Goa University on a topic of 'Accounting and Financial Practices of Small Scale industries in Goa' under the guidance of Dr. B. Ramesh since 1998.

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

Mario D'Souza, *Industrial disputes — A case study of Goa Shipyard Ltd., Vasco*, September 1996, *Self*
A Rodrigues, *Accounting and Financial Practices of Small Scale Industries in Goa*, January 1998, *Self*

(b) (i) Attended: Seminars/Conferences: (Teacher, *Theme of Conf.*, Place, Date, *Title of Paper*)
Bibial G. Dias, *All India Association for Christian*, Bangalore (Kristu Jyoti College), 4-12 May, 2000, *Communalism in India*.

(b) (ii) Attended Workshops: (Name of Teacher, *Theme of Workshop*, Place, Date).
Annie Shakoor, *National workshop for Teachers of English in Indian Colleges and Universities*, Bangalore (Kristu Jyoti College), 14 — 20 May, 2000.
Roy Gomes and Anthony Rodrigues, *Self Renewal Paradigm shift with teaching-learning, testing process related skills to sustain change of growth*, Bangalore (Xavier Board of Higher Education in India), 22-27 May 2000.

4.19.8 (b) Ph.D. degrees conferred during the year: (Name of Candidate, Subject, *Title of the thesis*)
Mario D'Souza, Economics (M.Phil), *Industrial Disputes — A case study of Goa Shipyard, Vasco*.

4.19.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(b) Sports: (Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual))

Pratima Kunkolikar, Second Place, Lloyd Godinho, Second Place, Body Individual Championship. Building.
Lloyd Godinho, First Place, Power Lifting.

4.19.10 Any other information:

(a) Awards/Honours conferred.

Student's got Second Place for All Goa Folk Dance Competition organized by Konkani Bhasha Mandal's 'Yuva Mahotsav 2000' in January 10¹¹ and 11th 2000.

(c) Any other special achievement by student/staff

Xavier Domic, Vinchister, Dolphi., John, Sunil, Amith, Royston and Tony have participated for selection of University team for west zone..

Agnelo Dias was the member of the organizing and technical committee of the west and Inter zone football tournament.

A mega event was organized by the college in the field of sports in the form of "Sports and Cultural Festival 1999". In the inter-collegiate sports festival the college volleyball team won the volleyball tournament defeating MES college in the finals. In football the college has defeated Saraswat College, Mapusa in the finals.

4.20 SHREE MALLIKARJUN COLLEGE OF ARTS & COMMERCE, CANACONA

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

G.S. Badiger, Ph.D., *Principal*, Geography
F.M. Nadaf, M.A., *Lecturer*, Geography
C.P. Hiremath, Ph.D, *Lecturer*, Geography
V.R. Pawaskar, M.A., *Lecturer*, English
Tanuja Fal Desai, M.Sc., *Lecturer*, Maths
Kshama Desai, [M.Com.](#), *Lecturer*, Commerce
Sandesh Sawant, [M.Com.](#), *Lecturer*, Commerce
Jagmohan Singh, M. A., *Lecturer*, Economics
Geeta Walwekar, M.A., *Lecturer*, Economics
Rakshi Mhalshi, M.Phil, *Lecturer*, Hindi

Sucheta Naik, M.Phil., *Lecturer*, Commerce
Rupa Chari, M.A., *Lecturer*, Hindi
Puranand Chari, M.A., *Lecturer*, Konkani
Domital D'Souza, M.A., *Lecturer*, History
Nityanand Naik, M.A., *Lecturer*, Konkani
Sushama Salokhe, M.A., *Lecturer*, Marathi
Arvind Haldankar, M.A. *Lecturer*, Sociology
Amit Mashelkar, M.A., *Lecturer*, History
Pramada Desai, M.A., *Lecturer*, Marathi
Sandeep Desai, M.A. LL.B., *Lect*, Business Law

4.20.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

' (a) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

Anand Velip, 3rd Rank, T.Y.B.A.

4.21 GOVERNMENT COLLEGE OF ARTS & COMMERCE, PERNEM.

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

M.M. Sangodkar, Ph.D., *Principal*, Political Sc.
Oscar C.N. de Noronha, M.A., *Lecturer*, English
G.A. Hegde, [M.Com.](#), *Lecturer*, Commerce
G.V. Madiwal, [M.Com.](#), *Lecturer*, Commerce
N. M. Gawas, [M.Com.](#), *Lecturer*, Commerce
Xavier M Martin, Ph.D., *Lecturer*, History
Soniya R. Sirsat, M.A., *Lecturer*, Hindi

N. D. J. DC Abreu, M.A., *Lect.*, Economics
B.K. Haravi, M.A., *Lecturer*, Geography
Ishani Roy, M.Phil., *Lecturer*, Geography
Amrita A. Dinge, M.A., *Lecturer*, Hindi
Neeta R. Tome, M.A., *Lecturer*, Marathi
Satish N. Sanval, M.A., *Lecturer*, Economics
S. L. Patil, M.P.Ed., *Dir. of Physical Edn.*

4.21.2 Highlights of the research activities:

Mr. Gajanan Madiwal, Lecturer in Commerce took up a research project titled "Modern Education System-Students Perception" on behalf of the College.

Miss Soniya R. Sirsat, Lecturer in Hindi took up a special project on "Women Development and Gender justice in Pernem Taluka" under N.S.S.

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

M. M. Sangodkar and G. A. Hegde, *Seminar on "Commerce Education in the 21" Century "organised by S.S. Dempo College of Commerce & Economics, Panaji, 23" to 24" October 1999.*

M. M. Sangodkar, *Conference organised by the Association of Indian College Principals, Goa University, 14th and 15th Dec. 1999.*

Soniya R. Sirsat (i) 66" *Orientation Course for Programme Officer's of the National Service Scheme, NSS Training & Orientation Centre Ahmednagar, 3rd July to 1 2th Aug'99*, (ii) *Seminar on 'Kabir' Govt. College of Arts, Science & Commerce Sanquelim, 11th Oct'99* and (iii) *Seminar on "Prayodwad" and "Bhavani Prasad Mishra Ki Kavitayen", Govt. College of Arts, Science and Commerce, Sanquelim, 28th Jan.'00.*

4.21.6 (a) Publications (Research Articles): (Name of Teacher, *Title*, Journal, Volume, Month/Year)
Gajanan Madiwal, *"Sex and Psychology"*, Kannada Journal.

4.2.10 Any other information:

1. Miss Neeta Tome, Lecturer in Marathi cleared the National Eligibility Test.

2. Miss Nirmala J. D'Abreu, Lecturer in. Economics cleared the Sate Eligibility Test.

4.22 NARAYANZANTYE COLLEGE OF COMMERCE, BICHOLIM

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

Arun Sakhardande, [M.Com.](#), LL.B., Principal,
Commerce and Business Management

Rajesh Amonkar, [M.Com.](#), *Lecturer*, Commerce
& Business Management

Sankaranarayanan K.G., [M.Com.](#), *Lecturer*,
Commerce & Business Management

Nayana Sail, [M.Com.](#), *Lecturer*, Accountancy &
Cost & Management Accounting

Rajendra Kumbharjuvenkar, [M.Com.](#), *Lecturer*,
Commerce & Business Management

Manila Pai Kuchelkar, M. Corn., *Lecturer*,
Commerce & Business Management

Dhaktu Pal, LL.M., *Lecturer*, Business Law.

Ramchandra Surlekar, M.M.S., *Lecturer*,
Commerce & Business Management

Nandini Kamat, M.Sc., *Lecturer*, Mathematics

P. Sawant, [M.Com.](#), *Lecturer*, Accountancy &
Cost & Management Accounting

Chaaya Shetye, [M.Com.](#), *Lecturer*, Accountancy
& Cost & Management Accounting

S. Patkar, M.A., *Lecturer*, Business Economics

J. Adhikari, M.C.A., *Lecturer*, Computer Science

Sherin Sheikh, M.A., *Lecturer*, English

Bipin Bandekar, [M.Com.](#), *Lecturer*, Accountancy
& Cost & Management Accounting

S. Harmalkar, M.P.Ed., *Sports Director*, Sports

Sudhir Halvegar, M.Lib., *Librarian*, Library

4.22.5 Seminars/Conferences/Workshops, etc.

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

To discuss the Syllabus and distribution of marks of the Vocational Subject Management of the Sales Force, Sales Promotion and Public Relations at T.Y.B.Com.Level, 18 December 1999, Narayan Zaniye College Commerce & Business Management.

4.22.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(e) Sports: (Name of Student/Team, Achievement (Medals/Place etc.), Sports (Team or Individual)

(0

Shradha Gawas, Gold Medal, Judo

Laxmi Shinde, Represented, Kabaddi

Vinaya Morajkar, Represented, Kabaddi

Admissions for the non-professional courses during the 1999-2000															
	B.A.			B.Sc.			B.Com.			Vocational.			Total		
	F. Y.	S. Y.	T. Y.	F. Y.	S. Y.	T. Y.	F. Y.	S. Y.	T. Y.	F. Y.	S. Y.	T. Y.			
1.DHEM	132	99	118	151	96	108							704		
2.CHOW	101	109	82	185	124	130				30			761		
3.XAVI	187	179	174	187	134	169	176	158	151				1515		
4.DEMP							307	313	269				889		
5.CARM	99	83	118	85	30	40	88	66	70				679		
6.MESC	125	103	101				263	241	233				1066		
7.DAMO (BCA)							350	264	255	32	21	59	981		
8.BAND	120			134			74	35	59				168		
9.GVMC							943			07			1204		
10.PESC	100	95	130				316	264	198				778		
11.INSM				141	84	112							662		
12.CESC	28	29	15		04	39	49	71	27				43		
13.GSAN	64	54	61	89	59	61	116	72	67				219		
14.GHOM				50	34	34							643		
15.GKHA	22	18	18	47	38	38	103	60	53				118		
16.GQUE	66	50	65	57	57	40	128	95	70				397		
17.ROSA (BCA)	66	52	53	-	-	-	175	96	49				628		
18.SARA							36	25					491		
19.AGNE													61		
20.MALL	32	41	52				41	34	33						
21.GPER	23	27	20					54	37	21			233		
22.ZANT							135	104	63	13			182		
Total	11651	939	1007	11261	660	771	3354	11935	1618	82	1	21	1	59	12737

(B) PROFESSIONAL COLLEGES

4.23 GOA COLLEGE OF PHARMACY, PANAJI

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

M. G. Pai, M Pharm., <i>Principal & Assistant Professor</i> , Pharmaceutical Chemistry	L. P. Silveira, M.Sc., <i>Lecturer</i> , Pharm. Chemistry
L. Almeida, M. Pharm., <i>Assistant Professor</i> , Pharmaceutical Chemistry	R.V. Gaitonde, Ph.D., <i>Professor</i> , Pharmacognosy
S.S. Amonkar, M.Pharm, <i>Sr. Lecturer</i> , Pharma. Chemistry.	M.P. Bhoje, M.Pharm., <i>Lecturer</i> , Pharmacognosy
Anthony Menezes, M.Pharm., <i>Sr. Lecturer</i> , Pharm. Chemistry	R.V. Keny, M.Pharm., <i>Assistant Professor</i> , Pharmaceutics
T. V. Walke, M Pharm., <i>Lecturer</i> , Pharm. Chemistry	M.H.S. Godinho, M.Pharm., <i>Lecturer</i> , Pharmacology
Y.Sardesai, M.Sc., <i>Lecturer</i> , Pharm. Chemistry.	R. S. Gude, M. Pharm., <i>Lecturer</i> , Pharmaceutics.
D.M. Shingal, M.Pharm., <i>Asst. Professor</i> , Pharmaceutical. Analysis	R. K. Shirodkar, M.Pharm., <i>Lecturer</i> , Pharmaceutics.
	P. J. Bhide, M. Pharni., <i>Lecturer</i> , Pharmaceutics.
	A. Betigeri, Master in Computer Science, <i>Lecturer</i> , Computer Science

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

R. Shirodkar, Coimbatore, 27-28 November 1999, *Practically Oriented New M.Pharm. Quality Assurance syllabus as per the needs of industry.*

(b) (ii) Attended Workshops: (Name of Teacher, *Theme of Workshop*, Place, Date)
R.V.Keny, *AICTE sponsored term training programme*, Mumbai, 18 to 30 October 1999.

M.H.S. Godinho and M.P. Bhobe, *Quality improvement programme on training teachers for tomorrows need*, Belgaum, 21.06.1999 to 03.07.1999.

M.P.Bhobe, *Quality Improvement Programme on Pharmacy Practice (Clinical Community and Hospital)*, Belgaum, 20.09.1999 to 01.10.1999.

M. P. Bhobe and R. S. Gude, *Workshop on Targeted Drug Delivery Systems and Herbal Products*, Manipal, 21.05.2000 to 03.06.2000.

R. S. Gude, *Workshop on Faculty Development Programme*, Mumbai, 11.10.1999 to 30.10.1999.

4.23.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc), Examinations)

Pradnya Borker, 1st Rank, B. Pharm.

424 COLLEGE OF ENGINEERING, FARMAGUDI

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

DEPARTMENT OF CIVIL ENGINEERING

A.M. Deshmukh, Ph.D., *Professor*
S.V. Ramchandran, *Professor*
P.D. Pal, M.E., *Assn. Professor*
S.B. Sheldalkar, M.E., *Asstt Professor*
P.R. Mutgi, M.E., *Asstt. Professor*
C. S. Gokhale, Ph.D., *Asstt. Professor*
A.K.S. Bhanduria, M.E., *Asstt. Professor*
K.G. Guptha, M.E., *Asstt. Professor*
S.N. Betagiri, B.E., *Lecturer*
S. Mesquita, Ph.D., *Asstt. Professor*
Ganesh Hegde, B.E., *Lecturer*
Wilma Fernandes, B.E., *Lecturer*
Shanti Balasubramaniam, M.E., *Lecturer*
H.S. Prasanna Kumar, M.E., *Lecturer*
Ms. Nisha Amonkar, M.E., *Lecturer*
Purnanand Savoikar, M.E., *Lecturer*
Vikas Chodankar, B.E., *Lecturer*
Mrs. Ujwala Phadke, M.Sc., *Lecturer*
A.A. Jalihal, M.Sc., *Lecturer*
N.D. Goswami, M.A., *Lecturer (Selection Grade)*

DEPARTMENT OF ELECTRONICS & TELECOM ENGINEERING

R. B. Lohani, Ph.D., *Professor*
K. R. Pai, Ph.D., *Professor*
P. Raja, M.E., *Assn. Professor*
M. Tamhane, M. Tech., *Asstt. Professor*
V. N. Shet, B.E., *Asstt. Professor*
Mahesh Gadag, M.Tech., *Assn. Professor*
T. V. Colaco, B.E., *Lecturer*
A. Chimulkar, M. Tech., *Lecturer*
H. G. Virani, B.E., *Lecturer*
A. T. Colaco, B.E., *Lecturer*

DEPARTMENT OF COMPUTER ENGINEERING

Laximinarayana J.A., M.E., *Assn. Professor*
Ms. Maruska Mascaranhas, B.E., *Lecturer*
Nilesh Faldessai, B.E., *Lecturer*
Ms. Geeta Varkey, B.E., *Lecturer*
Umesh Bapat A., B.E., *Lecturer*

DEPARTMENT OF ELECTRICAL ENGINEERING

S.N. Lall, Ph.D., *Principal*
R. P. Adgaonkar, Ph.D., *Professor*
Jyotsna Kamal, M.E., *Asstt. Professor*
V.K. Joseph, M.E., *Asstt. Professor*
Jaimol Thomas, M.E., *Asstt. Professor*
Subhash P. Borkar, M.Tech, *Asstt. Professor*
G. Kuncolienkar, M.E., *Lecturer*
Krishna Kumari T, B.Tech., *Lecturer*
Chanda Pathak, *Lecturer (On study Leave)*
Sangeeta Mahaddalkar, B.E., *Lecturer*
Anant Naik, B.E., *Lecturer*
Suneeta S. Raykar, B.E., *Lecturer*
F. A. Rodrigues, B.Ed., *Lecturer*
M. S. Rayudu, B.E., *Lecturer*

DEPARTMENT OF MECHANICAL ENGINEERING

R. L. Shanbhag, Ph.D., *Professor*
A. R. Naik, Ph.D., *Professor*
J.J. Goliwadekar, M.Tech., *Asstt. Professor*
A. D. Telang, M.Tech., *Asstt. Professor*
U. J. Amonkar, M.E., *Asstt. Professor*
C. S. Hadimani, M.E., *Asstt. Profeksor*
A. A. Siddhiqui, B.E., *Lecturer*
George Easaw, M.E., *Lecturer*
M. H. Dani, M.E., *Lecturer*
V. Marriappan, M.E., *Lecturer*
V. S. Manohar Shankar, B.E., *Lecturer*
Milind Sakhardande, B.E., *Lecturer*
B. R. Kulkarni, M.E., *Lecturer*
Rajesh P Gaonkar, M.E., *Lecturer*
S. B. Balsubramanian, B.E., *Lecturer*
M. G. Kulkarni, M.Sc., *Lecturer*
U. M. Prabhudesai, M.E., *Workshop Supdt.*
D. V. Shirodkar, M.E., *Asstt. Workshop Supdt.*

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

K. G. Gupta, *Mine Waste Mgt with waste tyres*, 24.03.2000, AICTE, Rs. 6.0 lakh.

4.24.5 Seminars/Conferences/Workshops, etc.

(b) (i) Attended: Seminars/Conferences: (Teacher, *Theme of Conference*, Place, Date, Paper).
R. B. Lohani, *GMBH Erfurt*, Wunstrof, 09.11.2000, A *Generalised GaAs MESFET Photo Detector*.

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

Rajesh Prabhu Gaonkar (i) *Quality Costs: Estimation & Techniques of reduction*, Shri Ramdeobaba Kamla Nehru Engg.College, Nagpur, 27.09.1988 to 08.10.1999, (ii) Milind Sakhardande and D. V. Shirodkar, *Recent Trends in Refrigeration Technology*, K.R.E.C. Suratkal, 12.11.1999 to 26.11.1999 and (iii) *Strategies for product design & development*, Rajaram Bapu Institute of Technology, Sangli, 20.12.1999 to 31.12.1999.

Rajesh Prabhu Gaonkar and Milind Sakhardande, *Neuro-Fuzzy advanced control system*, Rajaram Bapu Institute of Technology, Sangli, 06.12.1999 to 18.12.1999.

Milind Sakhardande, *TQM in Engg. Education*, AISSMS, Pune, 15.05.2000 to 27.05.2000.

B. E. Manohar (i) *Total Quality Management*, R.E.C. College Calicut, May 2000 and (ii) *Sensors in condition based maintenance*, P.E.S. Mandya, June 2000.

Rajesh B. Lohani, *Training of Trainers*, Crisp-gtz Hotel Cidalede Goa, 3-7 April 2000.

M. Tamhane, *Modern trends in personal communication*, NPOL Cochin, May 1999.

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

Uday J. Amonkar and Rajesh Prabhu Gaonkar, *An improved heuristic for initial solution of transportation problem*, Industrial Engineering Journal, Vol.XXIX No.9, September 2000.

R. B. Lohani (i) *Spread Spectrum Technology*, Telecommunication Journal (India), 50, May 2000 and (ii) *GaAs OPFET characterisation considering concentration dependent carrier mobility and life time*, I.E.T.E. Journal of Research, 45, September-December 1999.

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

Goa College of Engineering, *1570*, All over India and abroad, 1999-2001.

4.24.7 Sponsored Consultancy work undertaken.

K. G. Gupta and S. Balasubramaniam, Concrete Testing Design ETC.

4.24.10 Any other information

Awards/Honours conferred:

R. B. Lohani, (i) Vijayshree Award 1999, IIFS, Delhi. (ii) Best Citizen of India Award 1999, IPH, Delhi.

4.25 NIRMALA INSTITUTE OF EDUCATION, PANAJI

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

Rita Paes, Ph.D., *Principal*

Sharmila Francisca Veloso, M.Ed, *Lecturer*

Rhoda Ferrao Almedia, M.Ed, *Lecturer*

Sergio Carvalho, M.Ed, *Lecturer*

Nicholas Francis D'Souza, M.Ed, *Lecturer*

Kunda Anil Borde, M.Phil., *Lecturer*

Vida Sequiera, M.Ed, *Lecturer*

Denzil F.M. Martins, M.Ed, *Lecturer*

Gopal Chandra Pradhan, Ph.D, *Sr. Lecturer*,

Susant C. Pradhan, Ph.D., *Sr.Lecturer*

Suvarna S. Gauns, M.Ed., *Lecturer*

Diana D'Souza, M.Ed, *Lecturer*

4.25.1 Highlights of the research activities:

Mr. D. Martins: Conducted a Survey Research Project "Heads of School and Computer Literacy" from ten Talukas of Goa.

4.25.5 Seminars/Conferences/Workshops, etc.

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

A Pre-school teaching training certificate, July 1999 to November 1999, Nirmala Institute of Education.

A short term training programme for in-service K.G. Teachers, Nirmzala Institute of Education.

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

J. Fonseca, *National Seminar on Academic Excellence in Higher Education*, Department of Education, University of Mumbai, 28-30 December 1999.

S. Veloso and D. Martins, *Workshop on "Information Technology Schools 2000 Project"*, UNESCO Delhi and MHRD (Delhi), Goa University, 14-15 Feb.' 00.

R. Almeida and G. Pradhan, *Orientation Programme For Teacher Educators*, NCTE, TISS, Mumbai, 21-25 September, 1999.

G. Pradhan, *National Workshop on "Environmental Education and Teacher Education"* Department of Education, Shivaji University, Kolhapur, 23-24 December 1999.

S. K. Pradhan (i) *"Professionalisation of Teachers through Humanistic Approaches to Teacher Education"* at a National Seminar on "Challenges in School Education in 2000+", Centre of Advanced Study in Education, Faculty of Education & Psychology at the M.S. University of Baroda, 6th and 7th March 2000, (ii) *Orientation Course on "Monitoring and Evaluation"*. National Institute of Public Co-operation and Child Development, Bangalore, 14-18 Sept'99 and (iii) *Workshop on "Community Participation in School Administration"*, National Institute of Educational Planning and Administration Delhi, S.I.E., Goa, 7.10.1999.

D. D'Souza, *State Level Seminar-Teacher Educators on Localising Information Technology and Education*, St. Ann's College of Education Mangalore, 22-24 Feb'00.

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

S. K. Pradhan, *In-service Teacher Education Programme — "Accent on Futurology"*, Journal/Book (Ed.) VISION and ACTION, 1999-2000.

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

B. Mendez, *Handbook for RET Therapists, Manual for FIRS Fear Identification Rating Scale*, Pilar Publishers, Goa, October 1999.

4.25.8 (b) Ph.D. degrees conferred during the year: (*Candidate, Subject, Title of the Thesis, Guide*)

Paily M.U., Education, *Development of Critical Thinking among Secondary School students in relaxation to some Psycho-contextual variables.*

4.25.10 Any other information:

Remedial Teaching Project A Remedial Teaching Project was conducted for children of Std. V in Anjuman Islam High School, Panaji.

Jeevan Dhara Counseling Centre Dr. B. Mendez also conducted a two-week Certificate Course in Counseling and a two-day course in Rational Emotive Therapy.

Department of Extension Services Workshops on (i) Question paper construction and analysis of question paper. (ii) Critical Thinking for Teachers. (iii) Content Course in Geography. (iv) Internet and Education. (v) Science Methodology and low cost teaching aids for teachers. (vi) Aids Awareness. (vii) Practical work in Geography. (viii) School Financial Management. (ix) Teaching of History in the Middle Schools. (x) Rational Emotive Therapy. (xi) Oral Communication Skills.

4.26 GOA COLLEGE OF ART, PANAH.

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

D. V. Navelkar, G.D.Art, <i>Principal</i> , (upto 15/01/2000)	Domnic Cordo, B.F.A., <i>Lecturer</i> , Applied Art
A.R. Shirodkar, G.D.Art, <i>Incharge Principal</i> , (from 15/01/2000 onwards), <i>Applied Art</i>	A.H. Farooqui, G.D.Art, <i>Lecturer</i> , Painting
S.R. Borkar, G.D.Art, <i>Lecturer</i> , Applied Art	Rohini Kakode, G.D.Art, <i>Lecturer</i> , Painting
Anthony D'Souza, B.F.A., <i>Lecturer</i> , Applied Art	H.R. Kambli, M.F.A., <i>Lecturer</i> , Painting
M. Vengurlekar, B.F.A., <i>Lecturer</i> , Applied Art	M.M. Chodankar, M.F.A., <i>Lecturer</i> , Painting
Rajeev Shinde, B.F.A., <i>Lecturer</i> , Applied Art	Digambar Singbal, B.F.A., <i>Lecturer</i> , Painting
Wilfred Goes, B.F.A., <i>Lecturer</i> , Applied Art	Omprakash Naik, M.F.A, <i>Lecturer</i> , Painting
D. Harihar, G.D.Art, <i>Lecturer</i> , Painting	Harsha Mandurkar, M.F.A., <i>Lecturer</i> , Painting
S. Prabhudessai, B.F.A., <i>Lecturer</i> , Applied Art	S.P. Chendvankar, G.D.Art, <i>Lecturer</i> , Painting

4.26.5 Seminars/Conferences/Workshops, etc.

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

Prof Santhanraj an eminent artist and ex-Principal of Govt. College of Art, Chennai demonstrated portrait painting workshop, 28/2/2000 to 4/3/2000, Regional Centre of Lalit Kala Academy Chennai in collaboration with this college.

P. Duroz of Delhi, an eminent Indian Ceramic artist, 6/3/2000, Slide Lecture in Goa College of Art.

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

Mahesh Vengurlekar, A.I.C.T.E., Mumbai, 5/12/1999 to 17/12/1999 *Visual oriented communication and concept oriented communication.*

Wilfred Goes, A.I.C.T.E., Mumbai, 5/12/1999 to 17/12/1999, *Visual oriented communication and concept oriented communication.*

4.26.9 Achievements:(Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc.), Examinations)

(i) Naik Praveen Gajanan, 1st Rank, B.F.A. (Painting) (ii) Mascarenhas Ezer Savio Antonio, 1^{5th} Rank, B.F.A. (Applied Art)

4.26.10 Any other information:

(a) Awards/Honours conferred

1. M. Vengurlekar designed and launched a web site on the subject "*Shrimat Bhagvadgita*".
2. D.Cordo, Lecturer, Applied Art org. three solo exhibitions of paintings in Goa and London.
3. S. P. Chendvankar, Lecturer was invited by the Fundacao Oriente to exhibit at an exhibition at Jamaat Art Gallery in Mumbai. Shri Chendvankar also exhibited his paintings at the Portuguese Consulate along with Mrs. Harsha Mandurkar, Lecturer.
4. Digambar Singbal, lecturer in the Dept. of Painting secured first prize for direction for Marathi drama 'Niro' in the All Goa Marathi Drama Competition org. by Kala Academy. He also received the third prize for the same drama in Pune.

4.27 MAHADEVRAO SALGAOCAR COLLEGE OF LAW, PANAJI

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

M. Pinheiro, LL.M., <i>Principal</i> , Law	G. Shaber Ali, M.L., <i>Lecturer</i> , Law
M.R.K. Prasad, M.L., <i>Lecturer</i> , Law	G.K. Tamba, LL.B., <i>Lecturer</i> , Law
Carmo D'Souza, Ph.D, <i>Lecturer</i> , Law	Kim Couto, LL.B., <i>Lecturer</i> , Law
Preetha M.B., LL.M., <i>Lecturer</i> , Law	

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

Justice Bhattacharya, Faculty Member National Law School, *Human Rights*, October 1999. V.B. Coutinho, Dean, Bangalore University, *Trade Union Laws in India*, November 1999. V.S. Mallar, Professor of Law National Law School, *Powers of the Supreme Court*, December 1999.

4.27.5 Seminars/Conferences/Workshops, etc.

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

Human Rights and Human Rights Violation, 27.11.1999, Fundacao Oriente, Law.

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

C. D'Souza and A. S. Kansar, *Property Rights of Hindu Women: Proposed Reforms*, Pune, Aug'99. •
Shaber All, *Environmental Law*, Bangalore, September 1999.

4.27.7 Sponsored Consultancy work undertaken.

Legal Aid and Legal Awareness Programme undertaken in 20 poor and remote villages in Goa.

4.27.10 Any other information:

The College carries out research activities under three categories:

By organizing State Level Law Seminars Under this category, the College chooses a topic of concern in the field of law. The topic is divided into various sub topics and the students conduct research on the sub topics and present their findings in the form of research papers. At end of the presentation, a panel of experts analyzes the various presentations for drawing conclusions.

By Moot Courts Topics of interest and various legal current issues are converted into a legal problem in the form of a case and the students are asked to argue on either side by researching into various aspects of the problem.

By Legal Aid and Public Interest Litigation The students after identifying issues of social concern investigate in detail the various issues of social injustice. The students are requested to approach the various authorities for granting relief. Upon the failure of the authorities they are asked to file public interest litigation before the High Court or Supreme Court. In addition to the above 3, the faculty members attend various national level seminars and present research papers.

4.28 V.V.M.'s Gov IND RAMNATH KARE COLLEGE OF LAW, MARGAO

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

A.S. Nadkarni, LL.M., *Principal, Law*

R.V. Kuncolienkar, LL.M., *Lecturer, Law*

C.J.F. Prasannakumar, LL.M., *Lecturer, Law*

T. Jacques., LL.B., *Lecturer, Law*

J.G. Prabhudesai, LL.M., *Lecturer, Law*

J. Antao, LL.B., *Lecturer, Law*

Sarojini Costa, LL.M., *Lecturer, Law*

C.A. Coutinho, LL.M., *Lecturer, Law*

Manoj Kumar K., LL.M., *Lecturer, Law*

Jayashankar K.I.LL.M., *Lecturer, Law*

M. Hede, M.P.Ed., *Director, Physical Education,*

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

Justice Bhattacharjee, Bombay High Court, *Judicial Review*, 28.07.1999 •

Justice Bhattacharjee, Bombay High Court, *Human Rights*, 29.07.1999

Justice Bhattacharjee, Bombay High Court, *Salient Features of Muslim Law*, 30.07.1999.

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

Jayashankar K.I. *Teaching Environmental Law in the University*, National Law School Bangalore,
20.02.2000 to 11.03.2000

4.28.9 Achievements:(Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (*Name of Student, Achievement (i.e. rank etc.), Examinations*)

Acharya Prasanna, 1st Rank, T.Y.LL.B.

4.29 GOA DENTAL COLLEGE AND HOSPITAL, BAMBOLIM

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

R.K. Singh, M.D.S., <i>Dean & Professor and Head</i> , Prosthodontics	Preeti Ambarkar, M.D.S., <i>Lecturer</i> , Oral Medicine & Radiology
M. Aras, M.D.S., <i>Asstt. Professor</i> , Prosthodontics	Ida de Noronha de Ataide, M.D.S., <i>Professor</i> , Conservative Dentistry
V Chitra, M.D.S., <i>Asstt. Professor</i> , Prosthodontics	R. Wagle, M.D.S. <i>Lect.</i> , Conservative Dentistry
Aparna Batra, M.D.S., <i>Lecturer</i> , Prosthodontics	Nandini Kamat, B.D.S., <i>Lecturer</i> , Pedodontics
A Fernandes, M.D.S., <i>Lecturer</i> , Prosthodontics	Steven Rodrigues, M.D.S., <i>Lecturer</i> , Pedodontics
I. Fernandes e Coutinho, B.D.S., <i>Lect.</i> , Prosthodontics	Jyoti Rao, M.D.S., <i>Asstt. Professor</i> , Periodontics
P.K. Chandra, M.D.S., <i>Professor</i> , Orthodontics	James Samuel, M.D.S., <i>Lecturer</i> , Periodontics
Anna Vaz, M.D.S., <i>Asstt. Professor</i> , Orthodontics	Gauri Sardessai, M.D.S., <i>Lecturer</i> , Periodontics
A. D. Dinkar, M.D.S., <i>Prof</i> , Oral Medicine & Radiology	A. Kenlcre, M.D.S., <i>Asstt. Prof.</i> , Community Dentistry
S. Badbade, M.D.S., <i>Lecturer</i> , Oral Pathology	A. Spadigam, M.D.S., <i>Asstt. Prof</i> , Oral Pathology
S. Patil, M.D.S., <i>Lea</i> , Oral Medicine & Radiology	Vikas Dhupar, M.D.S., <i>Lecturer</i> , Oral Surgery
Anita Dhupar, M.D.S., <i>Lecturer</i> , Oral Pathology	Francis Akkara, M.D.S., <i>Lecturer</i> , Oral Surgery
	S. Hegde, M.D.S., <i>Sr. Resident</i> , Oral Surgery

4.29.1 Highlights of the research activities:

Epidemiological study of oral cancer & pre-cancerous lesions in Oral Medicine & Radiology Department.

4.29.5 Seminars/Conferences/Workshops, etc.

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

P.O.P. Workshop, 2-3 October 1999, *Sponsorship*, Prosthodontics Oral Pathology & Periodontics.

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

Shama V. Patil and Preeti Ambarkar, *Aids Workshop*, Bambolim, 20th and 21st December, 2000.

Vidya Chitre (i) Chennai, *Infection control in Prosthodontics* by Dr. Vinella Fernandes P. G. student and (ii) Chennai, *Oral Rehabilitation a case report* — Dr. Zenita Menezes, P. G. student.

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

Aquaviva Fernandes (i) *Marphologic variation in roots of maxillary first motors*, I. Endodontology, Vol.III page 13, June 1999, (ii) *Concrescence — a case report* Endodontology, Vol.II, 67, 68 page, (iii) Prosthodontics *Rehabilitation of a cleft palate patient*, Jida Vol. 70 page 42, August 1999 and (iv) *Retention of endodontics post — An over view* Endodontology.

Gauri Sardessai (i) *Tooth movement A boon to the Gingival margin*, JISP 30 (No.1), March 2000, (ii) *Concrescence — A case report*, I.J.O.E., Vol.!, June 1999 and (iii) *Cleft lip palato rehabilitation*, JIDA, Vol.70, April/June 1999.

4.29.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc.), Examinations)

Fernandes Marina Rosita, First Rank, B.D.S.

4.29.10 Any other information:

Kum. Mascarenhas Meera secured highest marks in Pedodontics and has been given award by Indian Society of Pedodontics and preventive Dentistry. Kum. Rane Smita secured highest marks in Periodontics and has been given award by Indian Society of Periodontology.

4.30 GOA COLLEGE OF ARCHITECTURE, PANAJI

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

A.R.A. Antao, Dip. in Architecture, <i>Offg. Principal</i> , Architecture	Lawrende Rodrigues, G.D. Arch., <i>Lecturer</i> , Architecture
Ashish K. Rege, M.Planning (Housing), <i>Asstt. Professor</i> , Architecture	Roy D'Souza, B. Arch, <i>Lecturer</i> , Architecture
Madhavi Dixit Navare, B. Arch (Housing), <i>Asstt. Professor</i> , Architecture	Sanjay Belurkar, B. Arch, <i>Lecturer</i> , Architecture
Teenat Andani, B. Arch, <i>Lecturer</i> , Architecture	Salvin T. Goes Dias, B. Arch., <i>Lecturer</i> , Architecture

4.30.2 Highlights of the research activities of the College:

A. Research & Documentation Centre has been set up in the College with the following objectives.

- 1) To promote & project the ideology of the College.
 - 2) To preserve (and duplicate if necessary) the work done by the students/college during the academic year or for other events and develop an archive of such material.
 - 3) To encourage research work and its documentation through this centre.
 - 4) To provide backup facility for consultancy projects taken up by the College.
- B. A research topic momentarily titled "Dos and Dents in Local Goan Houses" targeting mainly students of Architecture is being attempted to make aware of constructional and design mistakes and to offer remedial and/or better alternatives to avoid such mistakes.

4.30.5 Seminars/Conferences/Workshops, etc.

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

Workshop on Electrical Systems/Working drawings by Albert D'Souza, 10/03/1999, Government of Goa, Goa College of Architecture.

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

Ashish K Rege, *CNCDP Lisbon, Portugal, University of Coimbra, Portugal, 02/03/1999 to 06/03/1999, Evolution of Margao in Goa through Portuguese Era (1510-1961 AD).*

Lawrence Rodrigues (i) *Indian Galvanizers Association, Goa, 22/02/1999, Distress control through use of Galvanized reinforced steel*, (ii) *School of Planning & Architecture, New Delhi, 14/02/2000 to 25/02/2000, Participatory approach in Architectural Education and* (iii) *Anna University, Chennai, 29/05/2000 to 10/06/2000, Low Energy Architecture.*

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

A. K. Rege (i) *The Humane Habitate — affordable Housing, Rizvi College of Architecture, Bandra, 23-26/01/99* and (ii) *The Portuguese Urbanistic Universe, Coimbra in Portugal, March 1999, Evolution of Margao in Goa through the Portuguese Era (1510 — 1961 AD).*

Zeenat Andani, *Harnessing the powers of Computer for Architecture org. by Council of Architecture, Dr. Bhanuben Nanavati College of Architecture for Women, Karvenagar Pune, 2 weeks 29-11-1999 to 10-12-1999.*

Sanjay Belurkar (i) *Participatory approach in Architectural Education, Hsc Bangalore* and (ii) *Quality improvement programme, School of Planning & Architecture, New Delhi.*

4.30. 6 (b) Publications (Books): (*Name, Title of Book, Publisher, Year*)

Ashish K. Rege, *Evolution of Margao in Goa through the Portuguese Era (1510 — 1961 AD)*, Coimbra in Portugal, March 1999.

4.30.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (*Name of Student, Achievement (i.e. rank etc.), Examinations*)

Dattaprasad Bhaskar Wagle, ^{1a} Rank, Architecture

4.30.10 Any other information:

1. Miss Megal I. Fernandes, a Year V (Final) student of the Goa College of Architecture has been awarded Charles Correa prize of Rs. 10,000/- for the best Design Thesis.
2. Master Ajaykumar Lotlikar, a Fourth year student of Goa College of Architecture has been awarded third prize in Photography competition which was organized by the Directorate of Forests, Government of Goa, Panaji during the Wild Life Week Celebration.

4.31 GOA COLLEGE OF MUSIC, PANAJI

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

Kamalakar Naik, M.A.M. Music, *Principal*, GCOM Ulhas Velingjar, M.Music, *Lecturer*, Tabla
S.S. Karandikar, M.Music, *Lecturer*, Vocal Prabhakar Chari, Traditional Professional
Manab Das, M.Music, *Lecturer*, Sitar Musician, *Lecturer*, Tabla

4.31.5 Seminars/Conferences/Workshops, etc.

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

Workshop on Yoga by Dr. Sitakant Ghanekar, 30.08.1999 to 03.09.1999, Govt. Goa College of Music.

Workshop on Bhajan by Pt. Somnath Chari a well known Goan Bhajan Artist, 08.07.1999 to 16.07.1999, Govt. Goa College of Music.

Workshop on Vocal Music by Pt. S.S. Haklankar, a well known Musician from Mumbai, 22.11.1999 to 25.11.1999, Govt. Goa College of Music.

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

K. Naik, *Gomantak Marathi Akademy, Panaji, 06.02.2000, Appreciation of Indian Classical Music.*

4.31.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (*Name of Student, Achievement (i.e. rank etc.), Examinations*)

Varsha P. Gadgil, 1st Rank, Vocal

4.32 INSTITUTE OF NURSING EDUCATION, PANAJI

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

Carol Noronha, M.Sc. (Nursing), *Principal* R. Mascarenhas, B.Sc., (Nursing), *Clinical*
Anna Raute, M.Sc. (Nursing), *Lecturer* *Instructor*
A. Fernandes, B.Sc., (Nursing), *Clinical M. D'Costa, B.Sc., (Nursing), Clinical Instructor*
Instructor K. Sawant, B.Sc., (Nursing), *Clinical Instructor*
S.Yadav, B.Sc., (Nursing), *Clinical Instructor* F. Rodrigues, M.Sc., (Nursing), *Lecturer*

4.32.5 Seminars/Conferences/Workshops, etc.

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

Management skills in Nursing, 11-21 September 2000 and 9-14 October 2000, Ministry of Health and Family Welfare, Institute of Nursing Education, Panaji

4.33 GOA VIDYAPRASARAK MANDAL'S COLLEGE OF EDUCATION, PONDA

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

Louis Vernal, M.Ed., Ph.D., *Principal*, Education Sunil Kumar, M.Ed, *Lecturer*, Education
Allan Abreo, M.Ed, *Lecturer*, Education G.C. Naik, M.Phil., *Lecturer*, Education
M.U. Paily, M.Ed, Ph.D., *Lecturer*, Education M. S. Suku Saji, M.Ed., *Lecturer*, Education
Sebastian J. Pinto, M.Ed, *Lecturer*, Education Govenkar Sanjay R., M.Ed., *Lecturer*, Education
Jojen Mathew, Ph.D., *Lecturer*, Education S. Vishwanath Naik, M.Ed., *Lecturer*, Education.
Anna Neena George, M.Ed, *Lecturer*, Education

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

L. Vernal, (i) *Conference of the Indian Association of Teacher Educators*, Delhi, 27 — 29 Dec.'99 and
(ii) *2nd Annual Conference of Indian College Principals*, Goa Uni. 14-15 Dec.'99.

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

L. Vernal (i) *Changing Parameters in Education*, *New Frontiers in Education*, Oct, -Dec, 1999 and (ii)
Higher Education in India Access and Importance, *University News*, 8th May 2000.

4.33.8 (b) Ph.D. degrees conferred during the year: (Candidate, Subject, *Title of the Thesis*, Guide)

Louis Vernal, Education, *Image of the School in Goa*.

Paily M.U. Education, *Development of Critical Thinking Among Secondary School students in relation to some psycho-contextual variables*.

4.30.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities)

(a) Academic: (Name of Student, Achievement (i.e. rank etc.), Examinations)

Fernandes Sibelia P. ^{1s} Rank, BEd.

Shiveshwar Smita Satish, 2^{11^o} Rank, BEd.

Narulkar Seema Nakul, 3¹¹ Rank, B.Ed.

Coelho Mitchell S. 3¹¹ Rank, B.Ed.

4.34 GOMANTAK AYURVEDA MAHAVIDYALAYA & RESEARCH CENTRE, SHIRODA.

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

Aruna Bale, M.D., *Acting Principal*, Sharir ICriya
Neelesh Korde, M.D., *Reader*, Sharir Rachana
Mona Chaurasia, M.D., *Lecturer*, Rasashastra
Nagaraja Samaga, M.D., *Lecturer*, Dravyaguna
U. Dixit, M.D., Ph.D., M.A., *Lecturer*, Samhita
Anil Panse, M.D., *Lecturer*, Kayachikitsa
Madhavilata Dixit, M.D., *Lecturer*, Swasthavrutta
S. Hebli, B.A.M.S., D.G. Diploma in Vejeekaran,
Lect, Sharir Kriya
Vidula Garud, M.D., *Lecturer*, Rognidan
Pranav Bhagwat, M.D., *Lecturer*, Sharir Rachana

S. S. Hosmani, B.A.M.S., *Lect.*, Sharir Rachana
Mrudula Joshi, M.D., *Lecturer*, Samhita
Shriniwas Gujjarwar, M.D., *Lecturer*, Shalya
Sampat Bhatane, M.D., *Lecturer*, Shalakyas
S. Tengse, Kavyateertha, *Lecturer*, Sanskrit
Madhavi Suradkar, M.D., *Lecturer*, Kayachikitsa
R. Ayyagari, M.D., *Lecturer*, Kayachikitsa
S. Karlekar, M.D., *Lecturer*, Streeroga / Balroga
Anand Pol, M.D., *Lecturer*, Rognidan
M. S. Sanikop, B.A.M.S., *Lect*, Sharir Rachana
Vinayak N. Joshi, M.D., *Lecturer*, Sharir Rachana

4.34.2 Highlights of the research activities:

Sharir Rachana Department had organized workshop on Prakruti assessment (Body Constitution) for the year 2000 and advised the people ways of maintaining the health.

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

Avinash Lele, Atreya Rugnalay Nandnandan, Prabhat Road, Lane No. 12, Erandwane, Pune 411004,
Shalya, 29.07.2000 and 30.07.2000.

4.34.5 Seminars/Conferences/Workshops, etc.

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

Seminar on Modern Trends in Ayurved, 17/02/2000, *Bharteeya Sanskriti Probodhini's Gomantak Ayurveda Mahavidyalaya and Research Centre*, Sharir.

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

Upendra Dixit, *Vaidyaraja Datar Panchabhautilca Chikitsa Ani Samshodhana Kendra*, Sangli, 18.12.1999 and 19.12.1999, *Fundamental Principle of Panchamahabhuta*.

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

Upendra Dixit (i) *Rasavikshepana*, *Madhujeevana* (Mumbai), Feb'00 and (ii) *Critical analysis of the special issues on Ayurvedic Studies*, *Madhujeevana* (Mumbai), April, 2000.

4.34.8 (b) Ph.D. degrees conferred during the year: (Candidate, Subject, *Title of the Thesis*, Guide)
Upendra Dixit, Basic Principles of Ayurveda, *A critical evaluation of the contemporary research in the basic principles of Ayurveda.*

4.34.10 Any other information:

(a) Awards / Honours conferred Best M.D. thesis to Dr. Anura P. Bale by All India Sharir Research Institute, Lucknow.

(b) Fellowships / Visiting Professorship, etc.

Called by the Dept. of Botany Goa Uni. to deliver lecture series alongwith the demonstration for the students of PG diploma course in Applied Plant Sciences.

Consultancy services provided to the Medical Plant Cultivation in the State of Goa.

4.35 GOA MEDICAL COLLEGE & HOSPITAL, BAMBOLIM

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

M. N. Pal, M. D., *Dean*

DEPARTMENT OF ANATOMY

A.V. Mainker, M.S., *Professor & Head*
Meenakshi V. Bargi, M.S., *Associate Professor*
Aroona A. Nagarsenkar, M.S., *Asstt. Professor*
Prashant E. Natekar, M.S., *Asstt. Professor*
Usha P. Bhate, M.S., *Lecturer*
Prakash R. Pai, M.S., *Lecturer*
M. P. Dias, M.S., *Asstt. Lecturer*
Rajani N. Dubhashi, M.S., *Asstt. Lecturer*
Deepa H. Kamat, M.B.,B.S., *Asstt. Lecturer*
Uday Kudalkar, MB., B.S., *Asstt. Lecturer*
Neelam R. Madhale, M.B., B.S., *Asstt Lecturer*

DEPARTMENT OF PHYSIOLOGY

M. E. Abraham, M.D., *Professor*
A.S.Borkar, M.D., *Associate Professor*
F.Monteiro, M.D., *Asstt. Professor*
Anne Noronha, M.D., *Lecturer*
S.D.Sahakari, M.D., *Lecturer*
M.D.Nagvekar, M.D., *Lecturer*
J.R.Pednekar, M.D., *Asstt Lecturer*
S.R.Sardesai, M.D., *Asstt Lecturer*
S.S.Audi, M.B.B.S., *Asstt. Lecturer*
F. DeSouza, M.S., *AssttLecturer*
S. S. Pandarbale, M.B.B.S., *Asstt. Lecturer*

DEPARTMENT OF PATHOLOGY

Nisha S. Nadkarni, M.D., *Professor & Head*
R.G.W. Pinto, M.D., *Associate Professor*
M.V. Mallya, M.D., *Asstt. Professor*
Avril Dias, M.D., *Lecturer*
Francisco F.D. Couto, M.D., *Lecturer*
Pramila Souza Rocha, M.D., *Asstt. Lecturer*
Suresh R.S. Mandrekar, M.D., *Asstt. Lecturer*
Sanjyot A. Nadkarni, M.D., *Asstt. Lecturer*
Sangeeta Amonkar, M.D., *Asstt. Lecturer*
Sachin Palyekar, M.B.B.S., *Asstt. Lecturer*
Domic J. Lobo, M.D., *Asstt. Lecturer*
Seeta Pai Raiturkar, M.B.B.S., *Asstt. Lecturer*
Marissa Rebello, M.D., *Asstt. Lecturer*

DEPARTMENT OF MICROBIOLOGY

M.P. Verenkar, M.D., *Professor & Head*
J D. S Dos R. Rodrigues, M.D., *Assoc. Prof*
Neena Kharangate, M.D., *Lecturer*
Venkatesh Naik, **M.D.**, *Lecturer*
Maria J.W. Pinto, M.D., *Lecturer*
Padamjit N. Singh, M.D., *Asstt. Lecturer*
Ramona D'Souza, M.D., *Asstt. Lecturer*
Gurleen Kaur, M.D. , *Asstt. Lecturer*
Sandhya Estibeiro, M.B.B.S., *Asstt. Lecturer*

DEPARTMENT OF FORENSIC MEDICINE

B.N. Reddy, M.D., *Professor & Head*
S.D. Sapeco, M.D., *Asstt. Professor*
E.J. Rodrigues, M.D., *Lecturer*
A.V. Fernandes, M.B., B.S, *Asstt. Lecturer*
M. S. Chodkireker, M.B.B.S., *Asstt Lecturer*

DEPARTMENT OF BIOCHEMISTRY

Shanti Pamnani, M.D., *Professor*
Asha A. Naik, M.D., *Asstt. Professor*
P.P. Nadkarni, M.D., *Asstt Professor*
Tanuja Kamat, M.D., *Asstt. Lecturer*
Chitra Dhume, M.D., *Asstt. Lecturer*
Manisha Audi, M.D., *Asstt. Lecturer*

DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE

D.D. Motghare, M.D., *Professor & Head*
A.M. Ferreira, M.D., *Asstt. Professor*
K. A. Quenim, M.D., *Lecturer*
J.A. Cacodkar, M.D., *Lecturer*
V.D'Souza, MA., *Lecturer Health Education*
M.S. Kulkarni, M.Sc., *Lecturer*
Vanita Pinto, M.D., *Asstt. Lecturer*
Gokuldas Gawde, MBBS, *Asstt.Lecturer*

DEPARTMENT OF RADIOLOGY

Mahesh G. Sardesai, M.D., *Professor & Head*
 Jeevan A. Vernekar, M.D., *Associate Professor*
 Sanjay Sardesai, M.D., *Lecturer*
 Renny Furtado, M.D., *Lecturer*
 A.K. Pandey, M.D., *Lecturer*
 Valentine Almeida, M.D., *Lecturer*

DEPARTMENT OF SKIN & V.D.

M.F. M. Miranda, D.D.V., *Asstt. Prof & Actg Head*
 Pankaj Shukla, M.D., *Assu Professor*

DEPARTMENT OF ORTHOPEDICS

U.G. Nachinolcar, M.S., *Professor & Head*
 C. Baretto, M.S., *Associate Professor*
 S.M. Bandekar, M.S., *Asstt. Professor*
 Z.D'Mello, M.S., *Lecturer*

DEPARTMENT OF NEUROLOGY

V.N. Jindal, M.S., *Professor & Head*
 Ponraj K. Sundaram, M.Ch., *Asstt. Professor*
 Farook Sayed Ahamed, D.N.B., *Lecturer*

DEPARTMENT OF PHARMACOLOGY

V.G. Dhume, M.D., *Professor*
 R.S. Diniz D'Souza, M.D., *Associate Professor*
 S.S. Hede, M.D., *Asstt. Professor*
 J.S.C. Pereira, M.D., *Lecturer*
 S.A. Bhounsule, M.D., *Lecturer*
 P.N. Bhandare, M.D., *Asstt. Lecturer*
 P.V. Rataboli, M.D., *Asstt. Lecturer*
 Sunita B. De Sa, M.D., *Assn. Lecturer*

DEPARTMENT OF ANAESTHESIOLOGY

Marilyn P. Nazareth, M.D., *Professor & Head*
 Dalia D. Bhandare, M.D., *Associate Professor*
 Sitaram V. Korgaonkar, M.D., *Asstt. Prof*
 Shaila Kamat, M.D., *Assu. Professor*
 Shirley A. D'Souza, M. D., *Lecturer*
 Yvonne Menezes, M.D., *Lecturer*
 Leena God, M.D., *Registrar*

DEPARTMENT OF PAEDIATRICS

P.D'Souza, M.D., *Asso. Professor & Acting Head*
 Maria Silveira, M.D., *Asst Professor*
 Balasubramanian Iyer, DNB, DCH, *Lecturer*

DEPARTMENT OF MEDICINE

N.G. Dubhashi, M.D., *Professor*
 L. Kamat, M.D., *Associate Professor*
 J.P. Tiwari, D.M. *Asso. Professor.*
 S.Y. Natekar, M.D., *Asstt. Professor*
 E. Gomes, M.D., *Asstt. Professor*
 O. Rebello, M.D., *Lecturer*
 A. Khandeparkar, M.D., *Lecturer*

DEPARTMENT OF T. B. & CHEST DISEASES

A.M. Mesquita, M.D., *Professor*
 Durga J. Lawande, M.D., *Associate Professor*
 A.L. Da Costa, M.D., *Asstt. Professor*
 Uday C. Kakodkar, M.D., *Lecturer*
 Lalita Fernandes, M.D., *Lecturer*

DEPARTMENT OF E. N. T.

C.P. Das, M.S., *Professor & Head*
 H.C. Goel, M.S., *Associate Professor*
 Sandesh Chodankar, Diploma, *Asstt. Prof*
 Carnegie De Sa, Diploma, *Lecturer*

DEPARTMENT OF OPHTHALMOLOGY

Pradeep G. Naik, M.S., *Professor & Head*
 Ugam P.S. Usgaonkar, M.S., *Asstt. Professor*
 Vivek Naik, M.S., *Asst. Professor*
 Ravindra Panandikar, M.S., *Lecturer*

DEPARTMENT OF GYNAECOLOGY

Prasad Nevrekar, M.D., *Professor. & Head*
 Milan Bhandare, M.D., *Associate Professor*
 Anjali ICamat, M.D., *Asstt. Professor*
 Savita Chandra, M.D., *Asstt. Professor*
 Guru Prasad Pednelcar, M.D., *Lecturer*
 Manjusha Jindal, M.D., *Lecturer*

DEPARTMENT OF SURGERY

Vasco D'Silva, M.S., *Professor & Head*
 Oswald D'Sa, M.S., *Associate Professor*
 A.N. Jadhav, M.S., *Associate Professor*
 D.P. Amonkar, M.S., *Asstt. Professor*
 F.P. Noronha, M.S., *Asstt. Professor*
 Jude Rodrigues, M.S., *Lecturer*
 Rajesh T. Patil, MS, *Lecturer*

**DEPARTMENT OF DERMATOLOGY,
VENEREOLGY & LEPROLOGY.**

M.F.M. Miranda, DNB, *Asstt. Professor*
 Pankaj Shukla, M.D., *Lecturer*

4.35.2. Highlights of research activities:

DEPARTMENT OF PHARMACOLOGY

1. Gastrointestinal Pharmacology: Equipments were carried out to find out any correlation between mechanism involved in gastrointestinal motility and secretion using several drugs like opioid analgesics and antibiotics.
2. Clinical Pharmacology: Therapeutic Drug Monitoring & Adverse Drug Reaction Monitoring continued.
3. Phytopharmacology: Standardization of routine screening procedures was carried out.

DEPARTMENT OF PATHOLOGY

Clinicopathological study of Oral and Oropharyngeal cancers.
FNAC of palpable breast lesions — statistical analysis with regard to sensitivity and specificity.
Cyto histopathological correlation of thyroid lesions.

DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology is on involved in research activity relating to diagnostic testing of clinical samples of patients treat at GAO Medical College.

DEPARTMENT OF TB AND CHEST

The following research work being carried out by the department.

1. Study of treatment re;ii 'liens for tuberculosis in HIV patients.
2. Clinical profile of bronchial asthma in Goa.

4.35.3 List of Visiting Scholars: (Name of Scholar, Institution, *Title of Lecture*, Date)

Venkateswaran, Kasturba Medical College, '*Postoperative Hypoxaemia: Aetiology Diagnosis & Management*', 31.10.2000.

4.35.5 Seminars/Conferences/Workshops, etc.

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

IAPM Golden Jubilee — CME, 03.09.1999 and 04.09.1999, Department of Pathology.
MAPCON Conference, 23.09.2000 and 24.09.2000, Department of Pathology.
Hospital Management Update, 23-24 April 1999, IGNOU & AHA, Preventive and Social Medicine.
Workshop on RCH (Reproductive Child Health), 12-13 February 2000, IAP, Pediatrics.
Workshop on RHC Programme, 13-20 October 2000, Ministry of Health & F. W., Department of Obstetric & Gynaecology.
Workshop in MTP & Tubectomy, September 2000, Directorate of Health Services, Department of Obstetric & Gynaecology.
Live Surgical Workshop on Manual Phako Cataract Surgery, 25th August 2000, National Institute of Ophthalmology, Pune, Dept. of Ophthalmology.
Dermatological Peels, July 2000, Goa Association of Dermatologists, Department of Skin & V.D.

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

J. R. Pednekar, *Mahatnza Gandhi Institute of Medical Sciences, Sevagram, 22.12.1999, Effect of Prana yam on auditory and visual reaction time.*
S. R. Sardesai, *Mahatma Gandhi Institute of Medical Sciences, Sevagram, 24.12.1999, BMI, Hip-shoulder-waist ratio and dietary habits in the older age groups.*
D'Souza Ramona et al *5th Maharashtra Chapter Conference of TAMH, Latur, 30.09.1999 and 01.11.1999, Prevalence of HIV among Pulmonary tuberculosis patients.*
Rodrigues Savio et al, *5th Maharashtra Chapter Conference of TAMH, Latur, 30.09.1999 and 01.11.1999, QBC Malaria diagnosis.*
Kaur Gurleen et al, *XXIII Indian Assoc. of Medical, Chandigarh, 18.11.1999 to 21.11.1999, Serodiagnosis of toxoplasmosis in Goa.*
Pinto M.J.W., *XXIII Indian Assoc. of Medical, Chandigarh, 18.11.1999 to 21.11.1999, A case of Ophthalmic myiasis by Chrysomia bozziana.*
Singh Padamjit N., *XXIII Indian Assoc. of Medical, Chandigarh, 18.11.1999 to 21.11.1999, Diagnosis of Enteric fever using coagglutination and widal test.*
Estibeiro S, et al, *XXIII Indian Assoc. of Medical, Chandigarh, 18.11.1999 to 21.11.1999, Taeniasis and cysticercosis in Agacaim village in Goa.*

Mapcon Conference, Goa Medical College, 23.09.2000 and 24.09.2000, (1) *Universal lesions in surgical pathology*, (2) *Pathology of rare lesions*, (3) *Search for diagnosis*.

I J. Rodrigues, Manipal Academy of Higher Education, Manipal, 6-8 February 2000, *Enforcement of Hospital Hygiene by garbage disposal*.

Kulkarni M.S., Department of Statistics Karnataka University, Dharwad, 17-19 February 2000, *Year of potential life lost in Goa*.

Rajesh Patil, Goa Medical College Staff Society, Bambolim, 11.12.1999, *Diabetic foot*.

U.G. Nachinolcar (i) *Ind. Orth. Asso.* Indore, 18.09.2000 to 21.09.2000, *COB and* (ii) *Ind. Orth. Asso.* Jaipur, 02.11.2000 to 05.11.2000.

Prasad Nevrekar (i) Panaji *Obst. & Gyn. Society (C.M.E.)*, Mandovi Hotel Panaji Goa, 12-13 August 2000, *Continuation of Medical Education and* (ii) *Indo- U.S. Perinatology Conference*, Hotel Mariot Beach Resort, 11-12 November 2000, *Perinatology Problem*.

Manjusha Jindal, *Workshop in Hosp. Set-up*, G.M.C., 11th November 2000, *Mini Hosp Set-up*.

Marilyn Nazareth, *I.S.A. National Conference*, Nagpur, 26. -30.12.2000, *Propofol for Endoscopy*.

M.F.M. Miranda, *Indian Association of Dermatologists Venereologists Leprologists*, Bangalore, January 2000, *Topical Lincomycine in acne*.

Jayant B. Mehta, Goa Medical College Staff Society, Bambolim, 08.11.2000, *Recent Advances in Management of Tuberculosis*.

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

P. V. Rataboli (i) Southern *Regional Conference of Indian Pharmacological Society and Preconference workshop on "Research Methodology and Biomedical Communication"*, St. John's Med.Cpl. Bangalore, 8-10 June 2000 and (ii) *WHO-ICMR Workshop on Clinical Pharmacology*, T. N. Med. Col. & BYL Nair Hospital, Mumbai, 11-23 December 2000.

Motghare D.D., *Research in RHC and Nutrition*, Goa, 20-22 October 1999.

Vidal D'Souza, *Interpersonal Communication*, New Delhi, November 1999.

A. N. Jadhav, *Hepato-Pancreatic Biliary-update*, Bhatia General Hosp.Mumbai, 30-31 October, 1999.

Rajesh Paul, *Medicine now and in the next millennium*, Hotel Cidade de Goa, Goa, 22nd Aug'99.

P. G. Naik, Ugam Usgaonkar, Vivek Naik, Ravindra Panandikar, *Live Surgery Workshop on Manual Phaco*, Goa Medical College, Dept. of Ophthalmology, 25.08.2000.

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

S. Sardesai, A. Borkar, M. Abraham, *Effects of short term administration of tulsi leaves on sexual behaviour in female rats*, Indian Journal of Physiology and Pharmacology, Vol. 43 No. 3, 1999.

Manisha G. Audi, *Oxidative protein Damage*, Indian Journal of Medical Biochemistry, July 1999.

Pinto M.J.W. et al, *Rapid diagnosis of Falciparum malaria in detection of plasmodium HRP-2 antigen*, Journal of the Association of Physicians of India, 47 (ii), 1999.

Rodrigues S., *Filarial worm in the eye*, Indian Journal of Medical Microbiology, 17 (4), Oct'99.

G. Kaur et al, *A study of Aeromottas in Goa*, Indian Journal of Medical Microbiology, 17 (4), Oct'99.

Significance of Histopathological Classification in Leprosy, Indian Journal of Leprosy, Vol.71 (3) Pgs. 325-332, 1999.

Cytodiagnosis of Dermato fibrosarcoma Protuberance, Journal of Cytology, Vol. 16 No. 2 Pgs. 121-123, 1999.

Squamous cell carcinoma of vagina-pathological diagnosis, Journal of Applied Medicine, Pgs. 393, 6/1999.

Microcystic Cystadenoma of Pancreas-Pathological diagnosis, Journal of Applied Medicine, Pgs. 674-675, 10/1999.

Non Hodgkin's lymphoma presenting as pleural effusion, Indian Journal of Clinical Practice, Vol. 9, No. II pgs. 73-74, 4/1999.

Sunita B. De Sa, *Bioassay of acetylcholine with horizontal strips of rat fundus*, Ind. J. of Pharmacology, 31(6), December 1999.

P. V. Rataboli, V. R. Naik, A. S. Kunkolienkar, N. V. Agshikar, R.S. Diniz D'Souza, V.G. Dhume, *A study of the therapeutic and adverse effects of carbamazepine vis-a-vis its serum concentrations*, Neurosciences Today, IV (2), April-June 2000.

P. V. Rataboli, R. s. Diniz D'Souza, V. G. Dhume, *Pigmented contact dermatitis from Quicklime (chuna)*, The Indian Practitioner, 53(10), October 2000.

Philomena D'Souza, along with Nandita D'Souza, V. Patel and H. B. Rao, *Determinants of follow up in early intervention for high risk babies*, Indian Paediatrics, September 2000.

L. Fernandes and A. Mesquita, *Sleep disordered breathing*, Archives of GMC, III, 1999.

A. Mehndiratta, Durga Lawande, A.. Misquita, *Oxygen Therapy*, Archives of GMC, III, 1999.

L Fernandes, A. Mesquita, *Allergic bronchopulmonary aspergillosis*, Current Med. Trends, 3(3), 1999.

Uday Kakodkar, *Non-Hodgkins lymphoma presenting as pleural effusion. A case report & review*, Indian J.Clin.Practice, 1999.

A. Mehndiratta, D. Lawande, *IPF in Polyarticular Rheumatoid arthritis*, Current Med. Trends, 1999.
A.Mehndiratta, A.. Da Costa, D.Lawande, *Empyema necessitans in a case of osteomyelitis of rib*, Indian Journal of tuberculosis, I, 1999.

4.35.7 Sponsored Consultancy Work undertaken:

The departmental teaching staff delivered the lectures pertaining to the speciality. (TB & Occupational lung diseases) to P.G. students of occupational & industrial health of the Inspectorate of Factories and Boilers affiliated to Goa University (4-5 lectures delivered by each member per year).

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

Sonar Narula, Microbiology, M.D. *Study of enteric fever in Goa with special reference to modified widal test and co-agglutination test for rapid diagnosis October, 1999.*

Nielle Pimento Pereira, Microbiology, M D. *Malaria in Goa — A six months study — April 2000.*

4.35.9 Any other information:

(a) Awards/Honours conferred:

1. 2 Distinctions in Obstetric, Gynaecology at Third MBBS-II October 1999.
2. Gold Medal in M.D. Obstetric, Gynaecology in 1st Half 1999.
3. Dr. Kasim Kolakadan passed M.D. in November 1999.
4. Dr. A. L. Da Costa, Assistant Professor was awarded WHO fellowship study tour from 15/11/1999 to 10/12/1999 at Francis J. Curry, National Tuberculosis Centre, San Francisco, U.S.A.

(b) Fellowships/Visiting Professorship etc.

1. Dr. D. D. Motghare was invited as Chairman, Scientific session on "Safe Food, Safe Water" from 6th to 9th June 1999 by International society of Travel Medicine, Montreal, Canada.
2. Dr. C. P. Das has successfully completed WHO fellowship in Otolaryngology/Deafness for two months in U.S.A.

(c) Fellowships/Visiting Professors, etc.

1. Dr. D. D. Motghare, Professor and Head, Prey. & Social Med, Goa Medical College, Bambolim Goa.

4.36 SHIVGRAM EDUCATION SOCIETY'S HOMOEOPATHIC COLLEGE & HOSPITAL, SHIRODA GOA.
'Information not received'

4.37 NATIONAL HYDROGRAPHIC SCHOOL, VASCO-DA-GAMA

4.37.1 List of Teaching Staff: (Name, Qualifications, Designation, Department)

Capt.S. S. Karnik, M.Sc., <i>Officer-in-Charge</i>	Lt. VM Apte, B.Sc., <i>Head of Department,</i>
Lt. Cdr. Hemanth Kumar, B.E., <i>Education</i>	<i>Hydrographic Practice.</i>
<i>Officer, Ancillary Hydrography.</i>	Lt. Cdr. A. Sreedharan, B.Sc., <i>Chief Instructor</i>
Lt.Cdr. TP Mahato, B.Sc., <i>Head, Hydrographic</i>	Lt. Ashish Arya, MHS, <i>Controller of Examination</i>
<i>Control.</i>	Lt. NSS Sreenivas, MHS, <i>Head of Systems.</i>
	Lt. Cdr. G S Pujar, BE., <i>Electrical Officer</i>

4.37.2 Highlights of the research activities of the College:

The following dissertations were carried out by the students of MHS course. Captain SS Karnik, Officer-in-Charge, Lt. Cdr Anil Sreedharan, Chief Instructor, Lt. Cdr Hemanth Kumar, Education Officer, Lt. Cdr TP Mahato, Lt A Arya, Lt NSS Sreenivas and Lt VM Apte Course Officer had guided the students in their dissertations. The Dissertation topics chosen were pertaining to the field of Hydrographic Surveying.

NAME	DISSERTATION TOPIC
Lt PS Samra	GIS for Coastal Zone Management
Lt HA Hardas	Use of Satellite Altimetry for defining a Geoid
Lt RB Menon	Use of precise Ephemeris for improving single point positioning
Lt Gurumani	Effective use of Motion Sensors

Lt Satish Bhosle	Tidal Analysis of Mormugao Harbour
Lt BK Prasanna	Comparative Study of Datum transformation
Lt MS Sekhar	Laser Bathymetry in Indian Waters
Ltcdt HE Aikhomu	Hydrography for Dredging Monitoring
Ltcdt AZ Muazu	Role of Hydrography in Geophysical Surveys
Ltcdt MI Hague	Jurisdiction of Hydrographer in CZM Surveys

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

Lt NSS Sreenivas RN Rai Member FHC, *CARIS LOTS*, NHO, Dehradun, 03.10.2000 to 09.10.2000.

4.38 PADRE CONCEICAO COLLEGE OF ENGINEERING, VERNA.

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

B. L. N. Sastry, Ph.D., <i>Principal</i> , Mech. Engg.	Stephen Barretto, Ph.D., <i>Lecturer</i> , Physics
V.K. Kustagi, M.Tech, <i>Professor</i> , Mech.Engg.	Anusha R. Pai, B.E., <i>Lecturer</i> , Comp.Eng&
C. R. Venkataramana, M.Tech, <i>Asstt. Prof</i> Mech.Engg.	Natasha Viegas, B.E., <i>Lecturer</i> , Elect. Engg.
Dayanand Pai, M.E., <i>Lecturer</i> , Mech. Engg.	Arun Torgal, B.E., <i>Lecturer</i> , Elect. Engg.
C.V. Pujari, B.E., <i>Lecturer</i> , Mech. Engg.	Kala Nayak, M.Phil, <i>Lecturer</i> , Mathematics.
Suraj Rane, B.E., <i>Lecturer</i> , Mech. Engg.	Adarsh Handa, M.Sc., <i>Lecturer</i> , Mathematics.
Geetalakshmi, K., M.Tech, <i>Lecturer</i> , Mech. Engg.	S.Jacob, M.M.S., <i>Lecturer</i> , Business Administration.
Jaganath Hirkude, B.E., <i>Lecturer</i> , Mech. Engg.	Vikas V. Bhujle, M.Sc., <i>Lecturer</i> , Physics
Joe Kurian, BE., <i>Lecturer</i> , Mech. Engg.	C. N. Pereira, M.Sc., <i>Lecturer</i> , Chemistry.
Neena Panandikar, BE., <i>Lecturer</i> , Civil Engg.	Lucy Godino, B.E., <i>Lecturer</i> , Electro. & TC Engg.
Tania Gomes, BE., <i>Lecturer</i> , Civil Engg.	S.Khanolker, B.E., <i>Lecturer</i> , Electro. & TC Engg.
Deepa Majithia, B.E., <i>Lecturer</i> , Comp. Engg.	Komala Soares, M.E., <i>Lecturer</i> , Electro. & TC Engg.
Kavita Asnani, B.E., <i>Lecturer</i> , Comp.Engg.	Nayana Shenvi, B.E., <i>Lecturer</i> , Electro. & TC Engg.
Reena Dalvi, B.E., <i>Lecturer</i> , Comp.Engg.	Supriya Patil, B.E., <i>Lecturer</i> , Electro. & TC Engg.
Mandeep Kaur, B.E., <i>Lecturer</i> , Comp.Engg.	Manisha Crasto, B.E., <i>Lecturer</i> , Electro. & TC Engg.
Wenonah Jaques, BE., <i>Lecturer</i> , Comp.Engg.	J. Iven, M.Tech, <i>Lecturer</i> , Electro. & TC Engg.

4.38.2. Highlights of research activities:

A paper entitled " An Approximate Analysis of a Three-Machine Production line with buffers" was presented by Prof. B.L.N. Sastry at an International conference on intelligent flexible autonomous manufacturing systems, Coimbatore, January 2000. Beside, a paper on "Strategic Management for Private Engineering Colleges" was published jointly by Prof. B.L.N. Sastry and Mr. Staju Jacob in the proceedings of National Conference on "Technical Education in the New Millennium", held at Hyderabad in March 2000. There is also a proposed plan for collaborative work with ONGC in areas of mutual interest. In addition to all this, some of our students are involved in projects related to their areas of specialisation at D-Link, NIO and NIC.

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

B.L.N. Sastry and Staju Jacob, *Coimbatore Institute of Technology*, Coimbatore, January 2000, "*An Approximate Analysis of a three machine production line with buffers*"

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

M. Crasto, *Orientation programme for Young Engineering Teachers*, Osmania University, Hyderabad.
I. Jose, *Teaching in the New Millennium*, REC, Warangsi and (ii) *Programming with Java*, NCST, Bangalore.

Supriya Patil, *Teaching in the New Millennium*, REC, Warangsi.

Komala Soares, *VLSI Desig*, Controlnet, Verna.

Deepa Majithia, *Elements of Web Design*, SDM College of Engg. & Technology, Dharwad.

C.V. Pujari (i) *Vision beyond 2000-Role of Technical Teacher*, IOC Baroda Gujarat and (ii) *Strategic Planning & Institutional Development*, WIT, Solapur.

D. Pai, *Ergonomical Concepts in Product Design*, D.K.T.E.'s Textile & Engg. Institute.

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

B.L.N. Sastry and Staju Jacob, *Strategic Management for Private Engineering Colleges*, Proceedings of the "National Conference on Technical Education in the New Millennium" held at Hyderabad organized at Osmania University, March 2000.

4.39 GOA INSTITUTE OF MANAGEMENT STUDIES, CARANZALEM.

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

Anand R. Naik, M. Corn., P.G.D.M. (IIMC), *Director*.

4.39.5 Seminar/Conferences/Workshops, etc

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

PGDM Workshop, 23/3/2000, Department of Management Studies.

4.40 VIDYA VIKAS MANDAL'S INSTITUTE OF MANAGEMENT TRAINING & RESEARCH, MARGAO

'Information not received'

4.41 INSTITUTE OF PSYCHIATRY & HUMAN BEHAVIOR, ALTINHO PANAJI.

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

J. M. Fernandes, M.D., *Director & Professor*

Maria Yvonne da Silva Pereira, M.D., *Lecturer*

P. J. Dukle, M.D., *Asstt. Professor*

Ashutosh Prabhu Dessai, M.D., *Lecturer*

H. A. Borkar, M.D., *Asstt. Professor*

D. S. Kukalekar, M.D., *Lecturer*

4.41.2 Highlights of the research activities of the institute:

The research activities in the IPHB includes preparation of thesis as a requirement for the M.D. (Psychiatry), besides this other research activity by the various faculty members Person Psychiatry and Clinical Psychiatry. Collaboration research project are also taken up with G.M.C. and Dental College, and other N.G.O.'s.

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

J. M. Fernandes (i) '*An open study of Zuclopenthixol, Zuclopenthilol Acetate (Clopixol Acuphase, Clopixol Depot and Clopixol Tablets) in Acute Psychosis including mania and exacerbation of chronic psychosis*' Lundbeck, Copenhagen, Denmark, (ii) '*An Open Label Comparison of venlazaxing and Fluxetine in the treatment of major depression*', Wyeth Lederle Ltd., Bombay and (iii) '*Efficacy & Safety of Olanzapine versus Haloperidol in Schizophrenia patients in India*', Eli Lilly Ranbaxy Ltd., Kalkaji, New Delhi.

4.41.5 Seminar/Conferences/Workshops, etc.

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

J. M. Fernandes, *Golden Jubilee Annual National Conference of Indian Psychiatric Society and Regional meeting of world Psychiatric Association*, SMS Medical College, Jaipur, 4-8 January, '*Open rial of Zuclopenthixol Acetate in Acute Psychosis — A Multicentred study*'.

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

J. M. Fernandes (i) '*Lunar Phase and Incidence of Psychiatric illness in Goa*', Indian Journal of Psychiatry, pp.42-47, April'99 and (ii) '*Lunar Phase Geomagnetic flax and Incidence of Psychiatric illness: a newer approach in the Lunar Hypothesis*'.

4.42 INSTITUTE OF SAFETY, OCCUPATIONAL HEALTH AND ENVIRONMENT, ALTINHO, PANAJI

4.42.1 List of Teaching Staff: (Name, *Designation*)

S. S. Prabhudesai, *Chief Inspector & Head*

A. A. Desouza, M.Sc., D.A.M., LLB (Gen)

Manish N. Gaunekar, MBBS, DOIH, *Medical*

PGDEE, *Chemist*

Inspector

P. P. Usgaonkar, M.Sc., D.I.H., *Labour Inspector*

4.42.5 Seminars/Conferences/Workshops, etc.

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

2 days programme on Occupational Health, 17.08.1999 and 18.08.1999, ISOHE.

1 day workshop on legislative aspects on Occupational Health, 04.11.2000, ISOHE/IAOH/ZIL.

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

Manish N. Gaunekar, *Occupational hazards among Dental Surgeons*, Indian Journal of Occupational and Environmental Medicine, 50th National Congress.

4.43 INDIAN INSTITUTE OF LOCAL SELF GOVERNMENT, PANAJI, GOA.

"Information not received"

Admissions in Professional Courses

	U.G					P.G		Total
	1st	2nd Y.	3rd Y.	4th Y.	5th Y.	1st	2nd Y.	
23.GPHA (B.Pharm.)	42	47	43	35				167
(M.Pharm.)	10	10	10					30
24.GENG (B.E.)	24	49	50	40				163
(M.E.)	43	48	45	48		03	04	191
(E & E)	21	24	20	21		04	10	100
(ETC)	63	25	23	22				133
(CE)	62	35	32	35				164
25.NIRM (B.R1.)	100							100
(M.Ed.)	10							10
(M.Ed.) (Part time)	03							03
(Ph.D.)	07							07
26.GART (B.F.A.)	42	43	37	39	39			200
27.SALG (LL.B.)	191	91	113					395
(Hon)	94	109						203
28.KARE (LL.B.) Old Course		18	26					44
Semester Course	92	76	54					222
29.GDEN (B.D.S)	29	25	30	30	30			144
(M.D.S)	05	05	05					15
30.GARC (B.Arch.)	20	32	37	43	49			181
31.GMUS (B.Music.)	11	13	05	02	05			36
32.NURS (B.Sc. Nursing)	10	05						15
33.EDUC (B.Ed.)	100	100						200
34.AYUR (B.A.M.S)*	79	45	69					193
35.GMED (M.B.B.S)*	212							212
(B.D.S.)	30							30
(MS)	09	02	02					13
(MD)	08	04	05					17
(DGO)	08							08
36.GKHM. (B.H.M.S.)								
38.GNHS. (M.H.S.)						--	--	--
39.1PHB (DPM)						02		02
(M.D.)						01		01
40.ISOH & E (PGDPCT)						19		19
(DOIH)						08		08
41. GIMS (D.A.M.)						16		16
(D.B.M.)						30		30
(PGDM)						23		23
Total	1325	806	606	315	123	106	14	3295

*M.B.B.S./B.A.M.S. consists of three examinations at the end of three terms each.

Admission in Malaria Research Centre: (PGDPCT — 2)

PART 5: RECOGNIZED INSTITUTIONS

5.0 List of Recognized Institutions:

1. Xavier's Centre Of Historical Research, Alto Porvorim
2. Malaria Research Centre, Panaji
3. Directorate of Archives, Panaji
4. National Institute of Oceanography, Dona Paula
5. National Centre for Antarctic & Ocean Research, Vasco-da-Gama.
6. Thomas Stephen Konkani Kendra, Porvorim, Goa.

5.1 XAVIER' CENTRE Of Historical Research, Alto Porvorim.
'Information not received'

5.2 MALARIA RESEARCH CENTRE, PANAJI.

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

Ashwani Kumar, Ph. D., *Senior Research Officer and In-charge*
P. K. Sumodan, Ph. D., *Asstt. Research Scientist*

5.2.2. Highlights of the research activities of the Institute:

1. Studies on the fungal associations of mosquito vectors in Goa.
2. Isolation, characterization, identification, culture and testing of Bacilli pathogenic to mosquitoes in Goa.
3. Bio-environmental control of mosquitoes at Mormugao Port Trust area, Vasco da Gama.
4. Resting behaviour and incrimination of *Anopheles stephensi* in Goa.
5. Forecasting of malaria in Goa.
6. Clinical Trials of an indigenous diagnostic kit for the diagnosis of *P. falciparum*.

5.2.5 Seminar/Conferences/Workshops, etc

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

Dr. Ashwani Kumar, *5th International Symposium on Vectors and Vector Borne Diseases*, Patiala,
School Health Education Programme on malaria in Goa.

5.2.6 (a) Publications (Research Articles): (Name of Teacher, *Titl'*, Journal, Volume, Month/Year)

Kumar, A.V.P. Sharma, P.K. Sumodan and D. Thavaselvam, *Anopheles stephensi build up and accelerated malaria transmission in the post bio-control intervention phase in Candolim PHC of Goa, India*, Journal of Parasitic Diseases, 23(1), 1999.

Kumar, A., Kulvir Sra, U. M. X. Sangodkar and V.P. Sharma, *Advances in the bio-control of mosquito vectors utilising Bacillus sphaericus and B. thuringiensis var. israelensis*, Proceedings of the National Academy of Sciences, India, 70, 2000.

5.2.7 Consultancy work undertaken:

Consultancy service was given to Mormugao Port Trust on the control of mosquitoes using bio-environmental methods.

5.3 DIRECTORATE OF ARCHIVES, PANAJI.
'Information not received'

5.4 NATIONAL INSTITUTE OF OCEANOGRAPHY, DONA PAULA, GOA.
"Information not received"

5.5 NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH, VASCO-DA-GAMA
'Information not received'

5.6 THOMAS STEPHEN'S KONKANI KENDRA, PORVORIM, GOA.
"Information not received"

PART 6: FINANCIAL STATEMENT

6.1 Grants:

6.1.1 Grants from the State Government

As a State University, the University is supported by maintenance & development grants from the State Exchequer. Rs. 10,64,05,000.00

6.1.2 Grants from University Grants Commission

1. Academic Staff College	Rs. 48,34,084.00
2. Automation of University Library under INFLIBNET	Rs. 01,72,000.00
3. Unassigned Grants	Rs. 04,00,000.00
4. Centre for Latin American Studies	Rs. 03,00,000.00
5. IX Plan Development Grant	Rs. 90,90,000.00
6. Upgradation of Computer Centre	Rs. 30,00,000.00
7. Computer lab for MCA course	Rs. 08,00,000.00
8. Research Grants for Major Research Project of Dr. S. G. Tilve, Department of Chemistry	Rs. 00,32,400.00
9. Research Grants for Major Research Project of Dr. R. Roy, Dept. of Zoology	Rs. 05,66,780.00
10. Organization of Conference of Director of Area Studies	Rs. 01,54,437.00
11. Computer facility for College Development Council	Rs. 00,90,000.00

6.1.3 Central Government Departments and other agencies:

1.	Council of Scientific & Industrial Research	Research Project of Dr. S. G. Tilve, Dept of Chemistry		Rs.02, 86,000.00
		Research Project of Dr. P. R. Sarode, Dept. of Physics		Rs.04, 46,665.00
		National Information Centre Grants for National Information Technology		Rs.00, 51,295.00
		All India Council for Technical Education		Rs.09, 00,000.00
		Project of Dr. V. V. Kamat.		
2.	Grants from Dept. of Ocean Development	Research Project of Dr. S. K. Dubey, Dept. of Microbiology.		Rs.03, 97,000.00
		Research Project of Dr. R. Roy, Dept. of Zoology.		Rs.07, 82,000.00
3.	Dept. of Science & Technology	Research Project of Dr. Y. S. Prahlad, Dept. of Mathematics.		Rs.1, 69,500.00
		Research Project of Dr. T. A. Vishwanath, Dept. of Geology.		Rs.00, 80,000.00
		Research Project of Dr. D. J. Bhat, Dept. of Botany.		Rs. 03,00,000.00
		Research Project of Dr. P. V. Dessai, Dept. of Zoology.		Rs.2, 00,000.00
		Research Project of Dr. K. Mahender, Dept. of Geology.		Rs.00, 70,904.00
		Identification and selection of Vesicular asbuscular mucorrhizal fungi, Dr. B. F. Rodrigues, Dept. of Botany.		Rs.02, 50,000.00
4.	Dept. of Bio-Technology	Post graduation course in Marine Biotechnology.		Rs.09, 15,500.00
		National Science Day.		Rs.00, 16,282.00
		Strengthening of training in Microbiology.		Rs.06, 13,000.00
5.	Dept. of Environment Forest & Wild Life	Research Project of Dr. D. J. Bhat, Dept. of Botany.		Rs.00, 74,000.00
6.	Dept. of Atomic Energy, Mumbai	National Board of Higher Mathematics Library Books and Journals.		Rs.01, 67,000.00

7.	Atomic Energy Research Board, Mumbai.	Research Project of Dr. V. S. Nadkarni, Department of Chemistry.	Rs. 03,80,329.00
8.	Inter University Consortium Indore	Research Programme of Dr. J.A.E. De Sa, Department of Physics. Research Programme of Dr. P. R. Sarode, Department of Physics.	Rs.00, 70,149.00 Rs. 00,58,368.00
9.	Bhabha Atomic Research Centre	Equipment Grant for Dept. of Microbiology	Rs. 51,42,396.00
10	Department of Space	Research Project of Dr. M. K. Janarthanam, Dept. of Botany.	Rs. 01,35,000.00

6.1.4 State Government Agencies:

a) Scholarships

1. Economically Backward class Scholarships.	Rs. 00,09,645.00
2. N. S. S.	Rs. 04,79,372.00
3. Educational concession to the children of Freedom Fighters service personnel.	Rs. 00,11,070.00
4. Setting up of a distance Education Information of training Intra structure.	Rs. 10,00,000.00
5. Constitution of Steering Committee.	Rs. 05,00,000.00
6. Construction of roads.	Rs. 18,50,795.00

b) Grants from Goa State Council for Science & Technology

I. Research Project of Dr. A. B. Shanbhag, Department of Zoology.	Rs. 00,76,000.00
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6.2 Endowments:

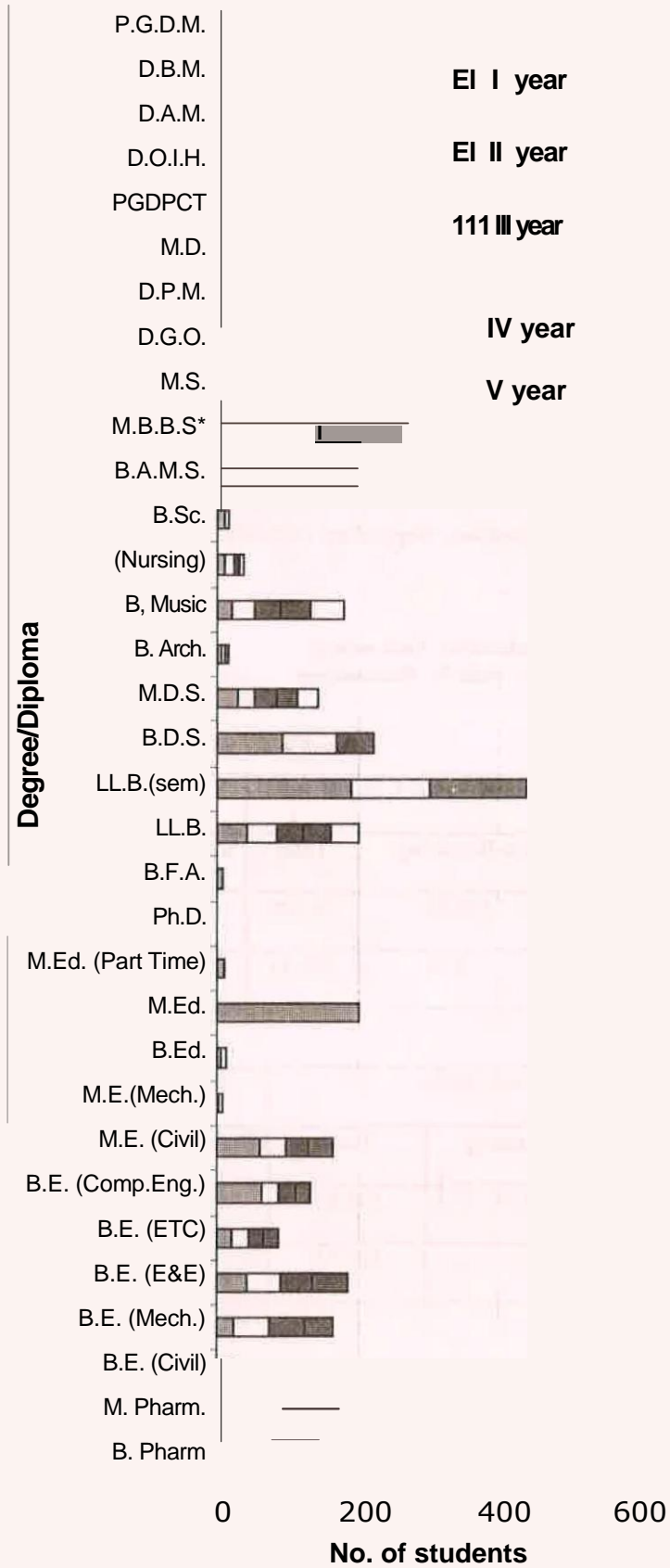
1. Late Shri Dilipkumar Raya Mahambre, Endowment	Rs. 01,00,000.00
2. Late Mr. & Mrs. D. J. Soares - Rebello, Endowment	Rs. 00.25.000.00

6.3 Expenditure (Rs. in Lakh)

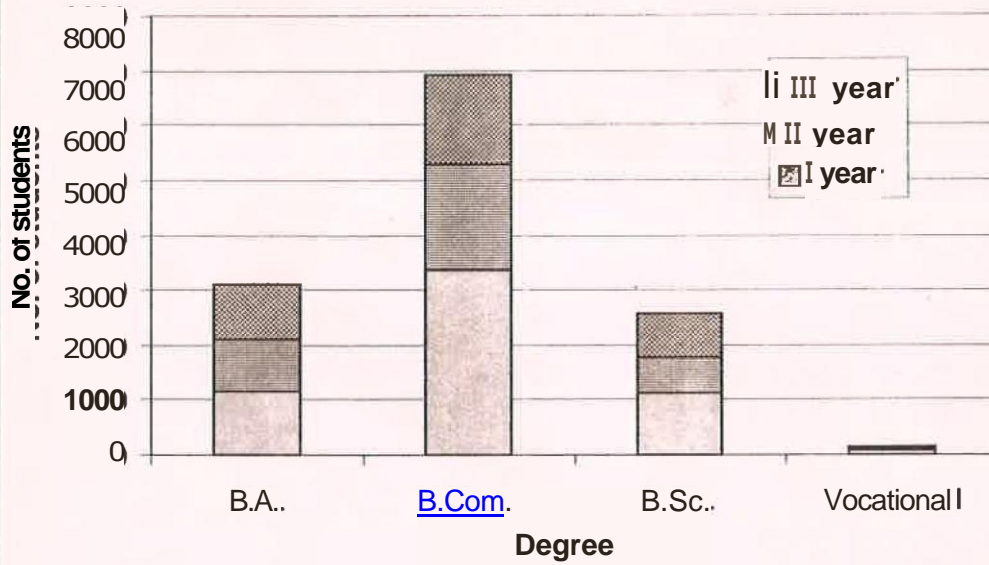
	Budget Estimates (1999-2000)			Revised Estimates (1999-2000)		
	Recurring	Non-Recurring	Total	Recurring	Non-Recurring	Total
Plan	566.17	176.81	742.98	318.52	234.98	553.50
Non-Plan	700.22	8.00	708.22	553.23	4.00	557.23

	Actuals (1999-2000)			Budget Estimates (2000-2001)		
	Recurring	Non-Recurring	Total	Recurring	Non-Recurring	Total
Plan	386.51	212.36	598.87	466.29	243.66	709.95
Non-Plan	623.53	--	623.53	722.64	4.00	726.64

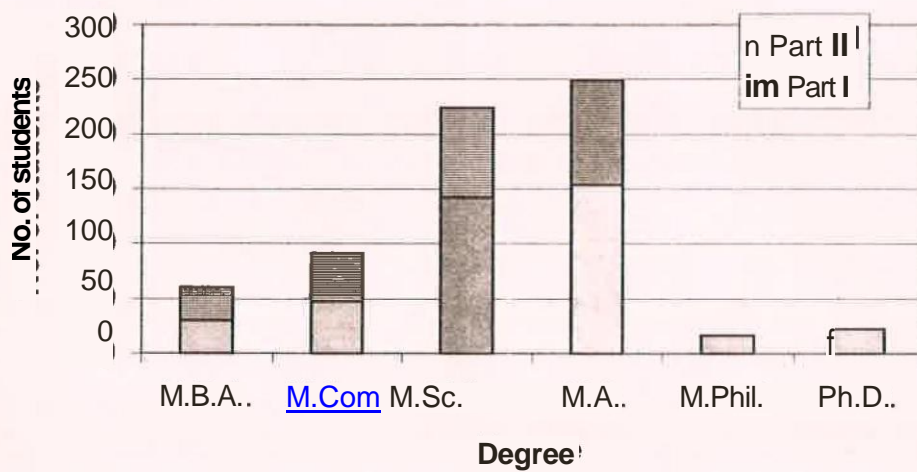
Enrolment in Professional courses



Students enrolment in UG (non-professional) courses



PG enrolment in University Departments





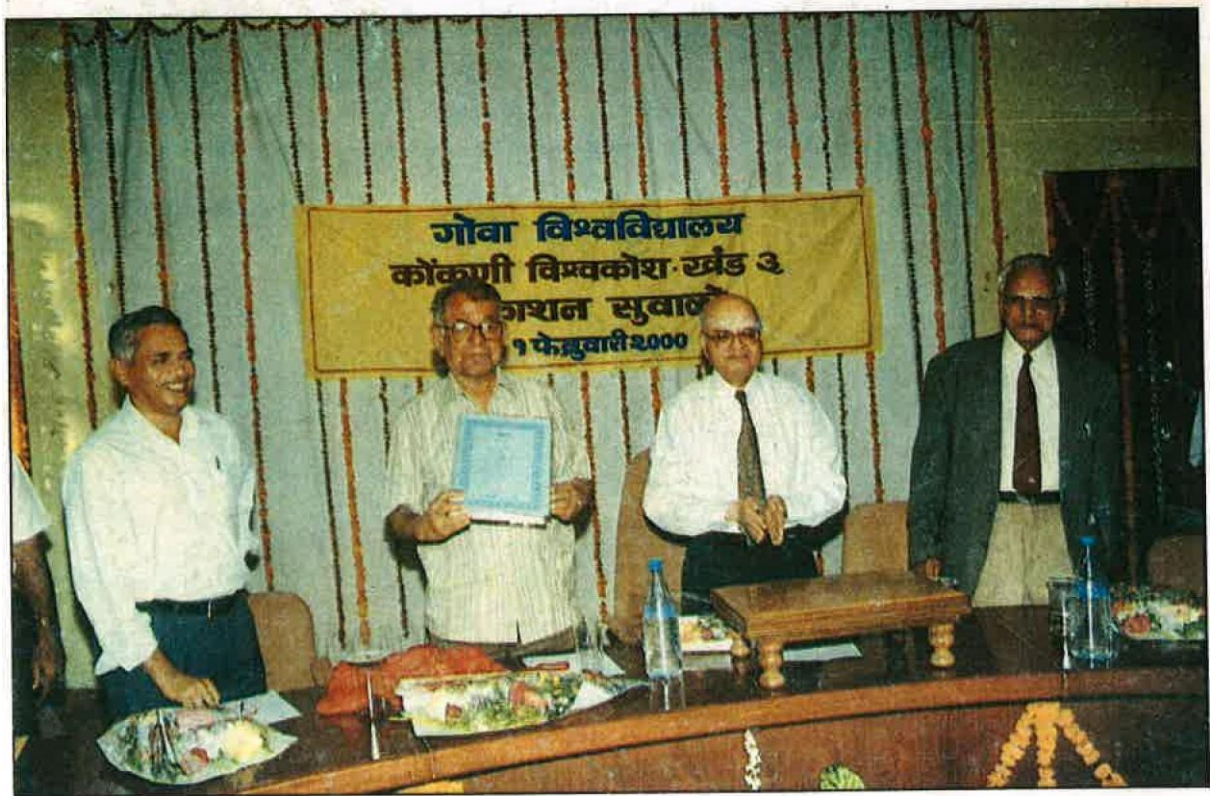
(Prof. M. M. Joshi, delivering convocation address at the XII Annual Convocation)



(H. E. The Governor, Shri Mohammad Fazal, presenting the Gold Medals at the XII Annual Convocation)



**(Tree-plantation by H. E. The Governor Shri Mohammad
Fazal)**



(Publication of Third Volume of Konkani Encyclopaedia)