

XVII ANNUAL REPORT

2001-2002

G O A



U N I V E R S I T Y
T A L E I G A O P L A T E A U
G O A 4 0 3 2 0 6

GOA UNIVERSITY

CHANCELLOR

H. E. GOVERNOR OF GOA

VICE-CHANCELLOR(S)

B. S. SONDE Up to 11. 02. 2002

0. J. F. GOMES Acting from 12. 02. 2002

REGISTRAR(S)

Offg. Registrars Up to 21. 03. 2002

J. S. BUDKULEY From 22. 03. 2002

DEANS OF FACULTIES

Languages and Literature

0. J. F. GOMES

Social Sciences

V. SHIVKUMAR

Natural Sciences

A. G. DESSAI Up to 29.08.2001

Y. S. PRAHLAD From 30.08.2001

Life Science and Environment

U. M. X. SANGODKAR Up to 31. 07. 2001

D. J. BHAT From 09. 08. 2001

Management Studies

A. SREEKUMAR

Medicine

U. G. NACHINOLKAR Up to 22. 01. 2002

V. G. DHUME From 23. 01. 2002

Engineering & Architecture

B. L. N. SHASTRY Up to 03. 09. 2002

A. R. NAIK From 04. 09. 2002

C O N T E N T S

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EDITORIAL COMMITTEE K.S. Bhat, *Convenor*, A.B. Shanbag, *Member*, Y.Y. V. Reddy, *Member*
Priolkar, *Member*, Madhavi Sardessai, *Member*, A. J. Thomas, R. Naik, S. Naik, K. Mordekar, K. W
Cover design by Cu College of Fine Arts

P R E F A C E

It gives me great pleasure in presenting the seventeenth Annual Report of Goa Univ⁴ the Academic year 2001-2002. The report is presented in six parts, Part 1 - Authorities and I the University, Part 2 - P. G. Departments/Centres/Programmes on the University Campus, General Administration, Part 4 - Affiliated Colleges, Non-Professional and Professional, Recognized Institutions and Part 6 - Financial Statement.

The report has been compiled by the University, based on the information provide, various administrative sections, PG Departments/Centres/Programmes, affiliated collee recognized institutions. It has been our experience that the process of collecting data consuming as well as difficult. Besides, the information obtained is often incomplete. This ha difficulties in the editorial work, leading to delays in finalization of the Report. It will be help1 the concerned sections of our University provide complete information to the Editorial Co promptly in future, so that the Annual Report is brought out by the Publication Unit in time.

Goa University has completed seventeen years since its establishment on 1 June, 19 an affiliating-cum-teaching University with post graduate teaching and research carried ou University Campus. There are now 22 Teaching Departments, 4 U. G. C. Centres, U. G. C. AI Staff College for in-service-training of teachers, 43 affiliated colleges (professional professional) and 7 recognized institutions conducting research. The University was accre 2001 by NAAC with a 4 star rating.

The teaching and research activities of the University continue to flourish. Departn Physics, Zoology and Botany have received research grants under FIST (Fund for Improve Infrastructure in Science and Technology) granted by the Department of Science and Tech Department of Physics, Chemistry and Earth Science received research support under SAP Assistance Programme) of the UGC. Several other departments are expected to receive ■ support from these funding agencies.

The fourteenth annual convocation of the University was held on 8th March 2002. Prof Misra, Director of HT Mumbai was the Chief Guest and delivered the convocation address.

There were some changes at the administrative level. Prof. B.S. Sonde retired a Chancellor on 11th Feb., 2002. Prof. O.J.F. Gomes was the acting Vice Chancellor till 20th Jun I joined as Vice Chancellor on 20th June 2002. Prof. Jayant S. Budkuley joined as Registrar March 2002. Dr. V.P. Kamat completed his term as Controller of Examinations on 30th April 21

I express my sincere gratitude to H. E. Governor of Goa and Chancellor, Goa Univen the keen interest he has shown in the functioning of the University. Our sincere thanks to Ps Sonde for his contributions to the growth of the University during the five years he was ti Chancellor. It is also our pleasure to acknowledge the services of Prof. O. J. F. Gomes as the Vice Chancellor. I am extremely thankful to the State Government for its continued suppor University. I also thank the University Grants Commission for the Grants allocated to the Un under vario\ us schemes. I also place on record my sincere thanks to the members of Ex Council, Academic Council, Court, Planning Board and other bodies of the University fi understanding and co-operation. My grateful thanks are also due to all the teaching and non-fi staff members and students of the University for making 2001-2002 yet another successful yea'

Taleigao Plateau.
January 2003

PROF. P.S. ZACIL
VICE-CHANCEL

PART I: UNIVERSITY AUTHORITIES AND BODIES

1.1 MEMBERS OF UNIVERSITY COURT

- VICE-CHANCELLOR, *Chairman (Ex-officio)*
B. L. N. SHASTRY, Dean, Faculty of Engineering & Architecture, C/o. Padre Conceicao College, Engineering, Verna, *Member*
- V. SHIVKUMAR, Dean, Faculty of Social Sciences, Goa University, *Member*
- A. SREEKUMAR, Dean, Faculty of Mgmt. Studies, Goa University, *Member*
- Y. S. PRAHLAD, Dean, Faculty of Natural Sciences, Goa University, *Member* (w.e.f. 25.10.2001)
- O. J. F. GOMES, Dean, Faculty of Langs. & Literature, Goa University, *Member*
- P. R. SARODE, Professor, Dept. of Physics, Goa University, *Member*
- P. V. DESAI, Professor, Department of Zoology, Goa University, *Member*
- N. JAYARAM, Professor, Dept. of Sociology, Goa University, *Member* (w.e.f. 25.10.2001)
- B. BAMESH, Professor, Department of Commerce, Goa University, *Member*
- F. A FERNANDES, Director, Academic Staff College, Goa University, *Member*
- KAMLAKAR B. NAIK, Principal, Goa College of Music, Panaji Goa, *Member*
- DAISY JOHN, Principal, Goa College of Home Science, Panaji Goa, *Member*
- ARUN S. NADKARNI, Principal, G. R. Kare College of Law, Margao Goa, *Member*
- BEULA SAVIO PEREIRA, Lecturer, Fr. Agnel College of Arts & Commerce, Pilar Goa, *Member*
- ROY C. D'SOUZA, Lecturer, Goa College of Architecture, Miramar Goa, *Member*
- RAVINDRANATH V. KUNKOLIENKAR, Lecturer, VVM's Govind Ramnath Kare College of Law, Margao Goa, *Member*
- APOORVA A. MARATHE, Lecturer, C.E.S's College of Arts & Commerce, Cuncolim Goa, *Member*
- NISHA N. AMONICAR, Lecturer, College of Engineering, Farmagudi Goa, *Member*
- CHANDRASHEKAR RAO GANESH, Lect., Govt. College of Arts, Science and Commerce, Sanquelim Goa, *Member*
- CHAIRMAN, Fr. Agnel Charity Trust, Verna Goa, *Member*
- CHAIRMAN, Bharateeya Sanskriti Pral Shiroda Goa, *Member*
- NIRANJAN SAWANT, CHAIRMAN, Goa Uni Students' Council, *Member*
- E. DE SA, Director, N.I.O, Dona Paula Goa, ERIC GONSALVES, IFS (RETD), Former Secretary and Indian Ambassador, C-. Apt., Mayur Vihar Phase-I. New *Member*
- ARUN R. SAKHARDANDE, Principal, P Zantye College of Commerce, Bicholli *Member*
- R. L. SHANBHAG, Principal, College c Farmagudi Goa, *Member*
- P. S. RAIKAR, Reader, Dept. of Earth Scieni University, *Member*
- Y. V. R. REDDY, Reader, Department Commerce, Goa University, *Member* 31.1.2001)
- URMILA BARROS, Lecturer, Dept. of Biotech., Goa University, *Member*
- SILVANO DIAS SAPECO, Assoc. Professot of Forensic Medicine, Medical C Bambolim Goa, *Member*
- PRAVIN P. NAIK GAONKAR, Lecturer, Dempo College of Commerce & Ecor Panaji Goa, *Member*
- M. S. RAM, IAS (RETD), 21/6 River Apartments, 4th main road, Gandhi Adyar, Chenna, *Member*
- USHA ALBUQUERQUE, Media per Anchor, 1/2, 2nd C Floor, Sarvapriya Vihai Delhi, *Member*
- PRABHAICAR M. SAWANT, A-1, Ground Gauri Apartment, Near Mapusa C Mapusa Goa, *Member*
- ADV. GANFSH SHIVA KUBAL, Reporter C Opp. Housing Board office, Alto Pot Bardez Goa, *Member*
- ADV. SWATI ULHAS ICERKAR, S-7, Raghl Apts., 2nd Floor, Near Bus Stand, San-Goa, *Member*
- SUREKHA P. DIXIT, H. No. 317, `Shri Nagar, Shirshirem, Bourn, Ponda Goa, M REGISTRAR, *Member Secretary* (Ex-C

During the year 2001-2002, two meetings of the Court were held.

1.2 MEMBERS OF ACADEMIC COUNCIL

- VICE-CHANCELLOR, *Chairman (Ex-Officio)*
U. G. NACHINOLKAR, Dean Faculty of Medicine *(Ex-Officio)* (w.e.f. 2/01/01)
- B. L. N. SHASTRY, Dean, Faculty of Enginee Architecture, *(Ex-Officio)* (w.e.f. 15/06/01)

- A. G. DESAI, Dean, Faculty of Natural Sciences (*Ex-Officio*) (upto 25/10/01)
- Y. S. PRAHLAD, Dean, Faculty of Natural Sciences (*Ex-Officio*) (w.e.f. 25/10/01)
- O. J. F. GOMES, Dean, Faculty of Languages & Literature (*Ex-Officio*)
- DEAN, Faculty, Performing, Fine Art & Music (*Ex-Officio*)
- V. SHIVKUMAR, Dean, Faculty of Social Sciences, (*Ex-Officio*)
- U. M. X. SANGODICAR, Dean, Faculty of Life Sciences & Environment (Er-Offici)(upto 08/08/01)
- D. J. BHAT, Dean, Faculty of Life Sciences & Environment (*Ex-Offici*)(w.e.f. 08/08/01)
- DEAN, Faculty of Law (*Ex-Officio*)
- DEAN, Faculty of Commerce (*Ex-Officio*)
- A. SREEKUMAR, Dean, Faculty of Management Studies (*Ex-Officio*)
- P. V. DESAI, Professor, Dept. of Zoology, Goa University, *Member*
- PETER R. de SOUZA, Professor, Dept. of Pol. Science, Goa University, *Member*
- N. JAYARAM, Professor, Dept. of Sociology, Goa University, *Member*
- B. RAMESH, Professor, Department of Commerce, Goa University, *Member*
- J. S. BUDKULEY, Professor, Department of Chemistry, Goa University, *Member*
- S. D. GORE, Principal, Dhempe College of Arts & Sc., Miramar Panaji, *Member* (upto 25/10/01)
- RITA PAES, Principal Nirmala Institute of Ed., Altinho, Panaji, *Member* (w.e.f. 25/10/01)
- MARIAN PINHEIRO, Principal, V. M. Salgaoncar College of Law, Miramar Goa, *Member*
- R. K. SINGH, Dean, Goa Dental College & Hospital, Bambolim Goa, *Member*
- I. BHANU MURTHY, Principal, Shree Damodar College of Comm. & Eco., Margao Goa, *Member*
- B. L. N. SHASTRY, Principal, P. C. College of Eng., Salcette, Verna, *Member* (upto 15/06/01)
- Cds. P. I. METHUEWS, National Hydrographic School, Vasco (w.e.f. 15/06/01)
- P.M. BHENDE, Principal, G.V.M's College of Comm. & Economics, Ponda, *Member*
- ARVIND D. KOTHE, Principal, S.E.S. Horn. College & Hospital. Shiroda Goa, *Member*
- M. M. SANGODICAR, Principal, Govt. College of Arts & Comm., Pernem Goa, *Member*
- D. M. DESHPANDE, Principal, Sarasw Vidyalaya's College of Comm. & Mani Studies, Khorlim, Mapusa, *Member*
- J. K. KIRTANI, Reader, Dept. of Chemistry, Gc University, *Member*
- J. A. E. DE SA, Reader, Dept. of Physics, Gc University, *Member*
- ANITA P. VASHISHTA, Lecturer, Dept. of English Goa University, *Member*
- AUTO SEQUIERA, Lecturer, Department of Soc Goa University, *Member* (upto 12/12/00)
- I. B. ICHAN, Lecturer, Dpt. of Hindi, *Memb*• (w.e.f.12/12/00)
- SATISH KUMAR, Lecturer, Dept. of Mgmt. Studie Goa University, *Member*
- ANTAO RAMOLA, Lecturer, Dhempe College (Arts & Science, Miramar Goa, *Member*
- Y. C. RAMANI, Lecturer, Dhempe College of Ar & Science, Miramar Goa, *Member*
- CORTEZ EDWIN, Lecturer, Dhempe College (Arts & Science, Miramar Goa, *Member*
- S. N. DOOJA POOJARI, Lecturer, M. E. S. ColleE of Arts & Commerce, Zuarinagar Goa, *Membe*,
- H. S. S. NADICARNI, Lecturer, Smt. ParvatiN College of Arts & Sc. Margao, Goa, *Member*
- S. H. BHOSALE, Lecturer, P. E. S's College of An & Science, Farmagudi Goa, *Member*
- VIVIDH R. PAWASKAR, Lecturer, Shre Mallikarjun College of Arts & Commerci Canacona, Goa, *Member*
- S. D. PATIL, Lecturer, D. M's VNS Bandela College of Commerce, Assagao Goa, *Member*
- S. B. PATKAR, Lect., Saraswat College of Comm. Mang., Studies, Khorlim Goa, *Member*
- E. DE SA, Director, National Institute c Oceanography, Dona Paula Goa, (*Ex-Officio*)
- CHAIRMAN, Goa Board of Secondary & High(Secondary Examination, Porvorim Goa, (E *Officio*)
- P. P. SHIRODKAR, Former Director, Archly((Goa), Vatsalya, B.B.Borkar Rd. Alt(Porvorrim, Bardez, Goa 401 521, *Member*
- P. P. GUPTA, D-3/6-Vasant Vihar, New Delh *Member*
- A. KAKODKAR, Director, Bhabha Atomic Researc Centre, Trombay, Mumbai-400 085, *Member*
- P. V. KONNUR, Librarian, Goa University, (E *Officio*)
- REGISTRAR, Member Secretary, (*Ex-Officio*)

During the year 2001-2002, three meetings of the Academic Council were held.

1.3 MEMBERS OF EXECUTIVE COUNCIL

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

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

U. G. NACHINOLICAR, Dean, Faculty of Medicin

Goa Medical College, Bambolim, *Mem*& (w.e.f. 22.1.2001)

1.6 DEANS OF FACULTIES

O. J. F. GOMES, Faculty of Languages & Literature

V. SHIVKUMAR, Faculty of Social Sciences

A. G. DESSAI, Faculty of Natural Sciences (Up to 29.08.2001)

Y. S. PRAHALAD, Faculty of Natural Sciences (From 30.08.2001)

U. M. X. SANGODKAR, Faculty of Life Sciences & Environment (Up to 31.07.01)

D. J. BHAT, Faculty of Life Sciences & Environment (From 09.08.01)

A. SREEKUMAR, Faculty of Management Studies

B. L. N. SHASTRY, Faculty of Engineering & Architecture, (Up to 03.09.02)

A. R. NAIK, Faculty of Engineering & Architecture (From 04.09.02)

U. G. NACHINOLKAR, Faculty of Medicine, (Up to 22.01.02)

V. G. DHUME, Faculty of Medicine, (From 23.01.02)
VICE-CHANCELLOR, Faculty of Commerce, Law, Fine Art & Music

1.7 OFFICERS OF THE UNIVERSITY

B. S. SONDE, Vice-Chancellor, Up to 11.02.02

O. J. F. GOMES, Actg. Vice-Chancellor, w.e.f. 12.02.02

J. S. BUDKULEY, Registrar, (From 22.03.02)

U. B. NAIK, Finance Officer

T. D. HALARNAKAR, Director, Student's Welfare, (Superannuated on 30.09.02)

P. V. KONNUR, Librarian

M. SHREEDHARA, Dy. Registrar (w.e.f. 19.04.02)

U. V. K. SHANICHWALICAR, Asst. Registrar

G. J. S. TALAULICAR, Asst. Registrar

M. A. VAIDYA, Asst. Registrar

G. D. NASNODKAR, Asst. Registrar

SHAIKH MAHMOOD, Asst. Registrar

LEO MACEDO, Asst. Registrar

DONALD A. E. RODRIGUES, Asst. Registrar

S. N. KAMAT DIAS, Asst. Registrar

ALBERT FERNANDES, Asst. Registrar

ASHISH J. THOMAS, Asst. Registrar-PR

M. CHAKRABORTY, Actg. Head Comp. Centre

SANJAY BANDODKAR, Programmer

V. L. SAWKAR, Executive Engineer

PATRICIA SEQUEIRA, Medical Officer

K. KAMBLI, Asst. Account Officer

M. MADHUSUDAN, Asst. Librarian

S. K. MARIYAPPAGOUDAR, Asst. Librarian

RAJENDRA GAD, Technical Officer

1.8 OTHER BODIES/ASSOCIATION AND THEIR COMPOSITION

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

SUNIL PRABHU DESAI, *President*

NEWMAN FERNANDES, *Chairman*

S. L. SARDESAI, *Secretary*

RITA PAES, *Ji. Secretary*

EXECUTIVE COMMITTEE OF GOA UNIVERSITY TEACHERS ASSOCIATION

A. B. PATIL, *President*

SATISH KUMAR, *Vice-President*

CHANDRALEKHA D'SOUZA, *Secretary*

A. V. SALICAR, *Treasurer*

J. S. BUDKULEY, *Member*

B. K. SHARMA, *Member*

V. S. NADKARNI, *b. Secretary*

P. S. RIVONKAR, *Member*

R. ROY, *Member (Ex-Officio)*

EXECUTIVE COMMITTEE OF UNIVERSITY AND COLLEGE TEACHERS ASSOCIATION

RADHIKA NAYAK, *President*

A. G. AGSHIKAR, *Vice-President*

T. GLADY MONY, *Treasurer*

A. SATARDEKAR, *Secretary*

B. S. INGALHALLI, *P. Secretary*

EXECUTIVE COMMITTEE OF THE GOVT. COLLEGE TEACHERS ASSOCIATION

OSCAR NORONHA, *President*

CONSTANCIO FERNANDES, *Vice-President*

DAISY JOHN, *ft. Secretary*

NILESH BORDE, *Treasurer*

B. L. N. SHASTRY, Dean, Faculty of Engineering & Architecture, C/o. Padre Conceicao College of Engineering, Verna. (w.e.f. 23.01.2002)

A. K. HEBLEKAR, Principal, PES, College of Arts & Sc., Farmagudi Goa, *Member*

A. V. AFONSO, Prof. & Head, Department of Philosophy, Goa University, *Member*.

GEN. S. F. RODRIGUES (RETD)., Former Chief of the Army Staff, Defence Colony, Porvorim Goa, *Member*

R. RAMAKRISHNA, IAS (RETD)., 90, Anupam Apart., M. B. Road, New Delhi, *Member*

JALAJ SHRIVASTAVA, Secretary To Go Chancellor, Goa University, Raj Bhav *Member*

D. P. PEDNEKAR, 'Dharmasthala' Vija: col., Alto Porvorim Goa, *Member*

SHRINIVAS V. DEMPO, Dempo House, C Panaji Goa, *Member*

SECRETARY (FINANCE), Govt. c Secretariat, Panaji, *Member (Ex-Officid*

SECRETARY (EDUCATION), Govt. Panaji, *Member (Ex-Officio)*

REGISTRAR, *Member Secretary (Ex-Offic*

During the year 2001-2002 ten regular meetings of the Executive Council were held.

The Executive Council has taken the following major decisions:

1. Accreditation by NAAC for a period of five years with a grade of four stars on a five point sca
2. Visit of a three member Japanese delegation in connection with the SIP.
3. A booklet outlining the major achievements of the University during the IX Plan period.
4. Signing of Memorandum of Understanding between Goa University and Federal University c Janeiro (Brazil).
5. Signing of Memorandum of Understanding between Goa University and International Mt University (IMU) Rome, Italy.

1.4 MEMBERS OF PLANNING BOARD

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

A. M. PATHAN, Former Vice-Chancellor, 7514, Ranoji Rao Rd. Bangalore-4, *Member*

A. SREEKUMAR, Dean, Faculty of Mgmt. Studies, Goa University, *Member*

V. R. SHIRGURKAR, Principal, Smt. Parvatibai Chowgule College of Arts and Science, Margao, *Member*

0. J. F. GOMES, Department of Konlcani, Goa University, *Member*

J. S. BUDKULEY, Department of Chemis University, *Member (upto 3/5/02)*

V. A. PAI PANANDIKAR, President & P Centre for Policy Research, New Delhi,

PETER R. D'SOUZA, Depart. of Political Goa University, *Member (w.e.f. 3/5/02)*

R. P. KAUSHIK, (Former Member, UGC International Studies, Jawaharlal University, New Delhi, *Member*

REGISTRAR, *Member Secretary (Ex-Officid*

During the year 2001-2002, one meeting: of the Planning Board was held.

1.5 MEMBERS OF FINANCE COMMITTEE

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

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

SP. SECRETARY/DIRECTOR, Director, Higher Education, Govt., Goa, Secreteriat, Panaji, (*Ex-Officio*)

SECRETARY FINANCE, Govt, Goa Secretariat, Panaji, Goa, *Member (Ex-Officio)*

RAJENDRA L. BHOBE, Chartered Accountant, *Nominee of Chancellor, Member*

A. SREEKUMAR, Dean, Faculty of Man Studies, *Member (Ex-Officio)*

SRINIVAS V. DEMPO, Chairman, Dempo Companies, Panaji-Goa, *Nominee of E Council, Member*

U. B. NAIK, Finance Officer, Goa University, (*Ex-Officio*)

During the year 2001-2002 two meetings of the Finance Committee were held.

EXECUTIVE COMMITTEE OF THE ASSOCIATION OF OFFICERS OF GOA UNIVER

G. D. NASNODKAR, *President*
ALBERT FERNANDES, *Secretary*
LEO MACEDO, *Treasurer*
M. CHAKRABORTY, *Member*

V. L. SAWKAR, *Member*
R. PARSEKAR, *Member*
ASHISH JACOB THOMAS, *Member*
SANJAY BANDODKAR, *Member (Co-opt)*

EXECUTIVE COMMITTEE OF THE GOA UNIVERSITY NON-TEACHING EMPLO ASSOCIATION

ANTONIO G. VAZ, *President*
GANADHISH V. KENY, *Vice-President*
ICAMLAKAR K. BANDODKAR, *Gen. Secretary*
AQUAVIVA J. C.P. VAZ, *Treasurer*
DASHRATH KAMBLI, *ft. Secretary*

MEENA NAIK, *Member*
GAJANAN TAR!, *Member*
NANDA GAWAS, *Member*
USMAN AL! SHAIKH, *Member*
VINAYAK ARONDEK AR, *Member*

EXECUTIVE COMMITTEE OF THE UNIVERSITY NON-TEACHING STAFF ASSOCIN

Information not received

THE EXECUTIVE BODY OF POST GRADUATE STUDENTS' UNION

L. MILSON F. X. DIOGO, *President*
S. VENKATA ASHISH, *Secretary*
DHOND REEMA P., *Lad. Representative*

PAINIK DASHRATH G., *Cultural Secretary*
GURAV P. Y., *Sports Secretary*
NAG VEKAR T. G. *Research Stud-Rep.*

THE EXECUTIVE UNION OF GOA UNIVERSITY STUDENTS' COUNCIL

BARVE RAJENDRA G., *Chairman*
GAUNS DESAI P. R., *Secretary*
REBELLO F. F., *Lady Member*
AMONKAR S. S., *Member*
DESAI PRITESH, *Member*

GARDE H. R., *Member*
KANEKAR SUNNY, *Member*
SHAIKH R. AHMAD, *Member*
UMARYE SACHIN S., *Member*

MANAGING COMMITTEE OF THE GOA UNIVERSITY CAMPUS CONSUMERS C SOCIETY LTD.

D. J. BHAT, *Chairman*
K. MAHENDER, *Secretary*
I. K. PAI, *Treasurer*
A. B. PATIL, *Member*

T. D. HALARNAKAR, *Member*
V. L. SAWKAR, *Member*
R. PARSEKAR, *Member*

GOA UNIVERSITY CO-OPERATIVE CREDIT SOCIETY (ESTB. 12/01/1990)

VISHWAS D. SAWANT, *Chairman*
ANKUSH KINALKAR, *Vice-Chairman*
VITHAL S. ICERKAR, *Secretary*
K. G. PAI, *Treasurer*

UDAY PARSEKAR, *Executive Member*
ASHOK CHODANKAR, *Executive Member*
VASUDEO GAONKAR, *Executive Member*
DAYA MITRAGOTRI, *Executive Member*

PART 2: UNIVERSITY DEPARTMENTS

2.1 FACULTY OF LANGUAGES AND LITERATURE

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

DEPARTMENT OF ENGLISH: (M.A., M. Phil., Ph. D.) DEPARTMENT OF MARATHI: (M.A., Ph. D.)
DEPARTMENT OF FRENCH: (B. A., M.A., Ph. D) DEPARTMENT OF PORTUGUESE: (M.A., Ph. D.)
DEPARTMENT OF HINDI: (M.A., M. Phil., Ph. D.) CENTRE FOR KONKANI DEV. STUDIES
DEPARTMENT OF KONKANI: (M.A., Ph. D.)
FACULTY BOARD

Dean of Faculty, *Chairman*
A.K. Joshi, *Member*
S. D. Komarpant, *Member*
B. K. Sharma, *Member*
M. Selma de Veira Velho, *Member*

R. N. Mishra, *Member*
E. Melo Furtado, *Member*
K. J. Budkuley, *Member*
C. D'Souza, *Member*
V. D. Sawant, *Member*

DEPARTMENT OF ENGLISH

2.1.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

A.K. Joshi, Ph. D., *Professor & Head*
K. S. Bhat, Ph. D., *Reader*
K. J. Budkuley, Ph. D., *Reader*
A. B. Patil, Ph. D., *Reader*

A. R. Fernandes, M. Phil., *Sr. Lecturer*
A. P. Vashishtha, Ph. D., *Sr. Lecturer*
Nina Caldeira, Ph. D., *Lecturer*

2.1.2 Highlights of the Research Activities:

The Department of English was set up in 1985. Earlier the subject English was taught in Centre of Post-Graduate Instruction and Research of Bombay University at Panaji from 1965. At present the department has seven faculty members. Besides the M. A. programme, the department also offers the Ph. D. programme.

2.1.4 Sponsored Research Projects sanctioned during the year: (Name of the Investigator/s, Topic, Date of Sanction, Funding agency, Amount).

K. S. Bhat, Discourse Modernity & Yakshoyama, May 1999, Goa University, Rs.14, 000/-

Nina Caldeira, Goan Folklore, May 1999, Goa University, Rs. 14,000/-

Anita Vashishta, Contemporary Womens Writing in Hindi: A Sociological Perspective, January 2001, Goa University, Rs. 14,000/-

2.1.5 Seminars/Conferences/Workshops, etc.

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

A.K. Joshi, University of Mumbai, Mumbai 22" - 23^d May 2002, 'Maharashtra's contribution to Indian English Literature'.

A. B. Patil, (i) UGC & C.B.Patel College, Nadiad, Gujarat, 28" - 30" June 2002, 'English Literature and language in the 21st Century', Paper on 'Post Colonial Indian Criticism'. (ii) UGC, Mumbai University, Mumbai, 20^h- 21^h February 2002, 'Indian Literature & Colonialism', Paper on 'Resistant Literature of Protest'. (iii) Sahitya Akademi, New Delhi, 21" - 23^d February 2002, 'Trends in Indian Criticism', Paper on 'Whose Postcolonialism and Nativism are: Contesting Issues in Contemporary Indian Literature'.

Kiran Budkuley, (i) Sahitya Akademi's "National Seminar cum Festival of letters" Ravindra Bhavan, New Delhi, 21" - 23rd February 2002, "From Culture of Poetics to Poetics of Culture: Trends of Texts and Issues in Literary Criticism" (English), Paper on Criticism. (ii) Sahitya Akademi's Regional Seminar on Saint Poetry in Regional Languages, M. G. University, Ahmedabad, 28th - 30" September 2001, "Saint Poetry in Konkani" (English). (iii) International Centre, Goa, Dona Paula-Goa, State Seminar on Forty years of Goa's Liberation, 20" December 2001, "Paradoxes of Goan Identity" (English).

(iv) State Commission for Women & National Commission for Women, National Conference Empowerment of Women, 12th - 13th September 2001, Chaired a session on "Role of Local NC the Empowerment Process" (English). (v) Konkani Bhasha Mandal's Sheno Goenbab Me Event, Margao, Goa, 9th April 2002, "*Scunikshaa Saunskrutikadlyan Sahitya Saunskruti kaden: I Prw:ali, Dilcaa*" (Konkani).

Nina Caldeira, Attended International Conference on Canadian Studies at Haridwar, February 2002, Jewish Predicament on the Cultural Mosaic".

Anita Vashishta, National Seminar on the Colonial Impact on Indian Literature: Views and Reviews, 20th February 2002, "Locating Culture, Interrogating History".

(b)(ii) Attended: Workshops: (Name of the Teacher, Theme of Workshop, Place, Dates).

Kiran Budkuley, Research Project: Planning to Execution, Thomas Stevens Konkani Kendra, Porvori February 2002.

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

Anand B. Path, (i) Tulav: Tulanechi Upeksha Ka?, *Ruchi*, June 2001, 6-10. (ii) Namantare: Ta Chinhamimansa, *Akansha*, 9th September 2001, 7-12. (iii) Nobel Laureate Lekhanchi Bhasane, *Diwali*, November 2002, 189-2. (iv) Satyashodhaki Sahitya: Navya, *Nay Bharat*, 12th September 21-35. (v) Marathi Folk Literature, World Folk Literature Encyclopaedia in Assamese, G University, November 2002. (Four short stories and three radio talks are also published).

K. S. Bhat, The Landscape of Theory, Shodh, IIIrd, February 2002.

Kiran Budkuley, (i) "Venchik Samikshea Aayamantlean *Kaali Ganga*", *Sod*, Konkani Research Bulletin 3, February 2002, pp. 49-72. (ii) "Asturi Sashktikaran", Konkani Annual, 2001, pp. 17-23.

Anita Vashishta, (i) Re-dressing AMNESIA, Telling Tales: Dialogic Moments in History and Culture. (C Practice, Special Issue on Dialogism and Cultural Identity), June 2002. (ii) "In between: Loi Tradition and Modernity in the Works of Maitreyi Pushpa", *Feminism, Traditional and Mod* edited by Chandrakala Padia, Indian Institute of Advanced Studies, Shimla, 2002.

Nina Caldeira, Study of Margaret Mascarenhas' Sken, Special Issue on Dialogism and Cultural Identity, 2002

(b) Books: (Name, Title, Publisher, Year).

A. B. Patil, (i) *Patalachi Londonwari*, third edition (Textbook in Pune University for B. A. III), Mu Lokwangmay, 2002. (ii) *Tulav: Taulanik Sahityateel Nibandh* (Janasahitya Awardee), Gran Mumbai, 2002. (iii) Uddhav Shelke (English Monograph), Sahitya Akademi, New Delhi, 2002.

2.1.7 Sponsored Consultancy Work Undertaken: (Name of the Teacher, Nature of Consultancy, Name (Sponsorer, Duration of Consultancy, Amount).

A. B. Patil, Translation of P. S. Deshmukh's Ph. D. Thesis: 'The Origin and Development of Religion in Literature (OUP) 1933' into Marathi, Amaravati University, 2 years, Rs. 10,000/,

2.1.8 Any other information:

(b) Fellowship/Nisiting Professorships etc. :

A. K. Joshi, (i) Worked as judge for Goa Kala Academy awards. (ii) Member of General Council, Sa Academy & English Advisory Board, Sahitya Academy.

Kiran Budkuley, (i) Invited by All India Radio to interview Gyanpeeth and Sahitya academy award w author Indira Goswami during a specially organized programme. (ii) Member of the Executive cot Goa Konkani Academy.

Anita Vashishta, Delivered Lecture on The Theatre of the Absurd, English Department, University of 1 December 2001. (ii) Delivered Lecture on "Philosophical Traditions and Nineteenth Century Ame Novelists", English Department, University of Mumbai, December 2001. (iii) Assessment of PI Thesis entitled Tragic Vision in R. K. Narayan, Amaravati University, December 2001.

DEPARTMENT OF FRENCH

2.1.1. List of the Teaching Staff: (Name, Qualifications, *Designation*).

Edith Melo Furtado, Ph. D., *Lecturer*

Anuradha Wagle, M. Phil., *Lecturer*

2.1.2 Highlights of the Research Activities:

Edith Melo Furtado worked on women's writing having selected women authors from French-Canadian Literature. Her research is centered on the role of women in the French-Canadian context with particular stress on the emerging roles of women. The research work includes a study of feminist movement & feminist literature in Quebec and its links with the parent movement in France.

2.1.3 List of Visiting Scholars: (Name of Scholar, Institutional Affiliation, Title, Lecture Delivered, Name of the Department, Date).

Suman Venkatesh, French Department, Bangalore University, October 2001.

2.1.5 Seminars/Conferences/Workshops etc.

(a) Organised: (Title/Theme, Dates, Funding Agency).

Edith Melo Furtado & Anuradha Wagle, Organised Workshop on Evaluation Techniques, 18th December 2001, Indian Association of Teachers of French.

(b)(i) Attended: Seminars/Conferences: (Name of the Teacher, Theme of Conference, Place, Title of paper).

Edith Melo Furtado, (i) IACS, Haridwar, 24th - 26th February 2002, 'The New Image of the Woman: Subversion'. (ii) Department of Political Science, Goa University, 21st February 2002, Goa through the French Intellectual, Universe.

(b) (ii) Attended: Workshops: (Name of the Teacher, Theme of Workshop, Place, Dates).

Anuradha Wagle (Resource Person), Translation Theory, Department of Foreign Languages, Pune University, 22nd - 23rd November 2001.

2.1.8 Ph. D. degree conferred during the year: (Name of candidate, Subject, Title of Thesis).

Edith Melo Furtado, French, 'The Representation of Women in the Novels of Anne Hebert & Marie-Claire BIs'.

2.1.9 Any other information:

(b) Fellowship/Nisiting Professorships etc. :

Anuradha Wagle, three weeks Fellowship to University of Montreal, Quebec, Canada for the course in Language, Society & Culture, French-Canada (Quebec), July-August 2002.

DEPARTMENT OF HINDI

2i.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

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

Vrushali Mandrekar, M. A., *Sr. Lecturer*

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

Ravindra Mishra, Ph. D., *Lecturer*

Ishrat Bi Khan, Ph. D., *Sr. Lecturer*

2.1.2 Highlights of the Research Activities:

B.K. Sharma aohitashva' registered for D. Litt. in Lucknow University. He is working on 'Samakaleen Kavita Ka Samajshastra'.

2.1.3 List of Visiting Scholars: (Name of Scholar, Institutional Affiliation, Title of Lecture Delivered, Name of the Department, Date).

Mrutunjai Upadhyae, Retd. Prof. & Head, V.B. University, Hazaribag, lectured on 18th - 19th September 2001.

Brijpal Singh Gahloth, Govt. College, Quepem, delivered a lecture 'on "*Muktibodh Ka Fatancy Shilp*" October 2001.
 Sandeep Lotlikar, P.E.S. College, Farmagudi, Ponda, delivered lecture on "*Andher Nagri*", 29" Octobei
 Omprakash Tripathi, Chowgule College, Margao, delivered a lecture on "*Godan*", 31" October 2001.
 Sandeep Lotlikar, P.E.S. College, Farmagudi, Ponda, delivered a lecture on "*Holkar House Mein Dever*", 28th February 2002.

2.1.5 Seminars/Conferences/Workshops, etc.:

(a) Organised: (Title/Theme, Dates, Funding Agency).

National Seminar on '*Mass Media*' on 22nd February 2002 in collaboration with Institute of Menezes Bi Panaji.

National Seminar on '*Tulsi & Premchand*', 5th August 2002.

(b) (i) Attended: Seminars/Conferences: (Name of the Teacher, Theme of Conference, Plac Title of Paper).

B. K. Sharma, '*Rohitashva*', (i) National Symposium of Hindi Lekhak Sangh, Kabeer Dera, Hydera June 2001, '*Kabeer Aur Vemanna Ka Kavya*'. (ii) Seminar organised by Madhoji Vidyalaya, on 8th - 9th February, 2002, '*Samakaleen Kaviata Sprase Bhugola Evam Kaal Samprakti*'. (iii) organised by Sagar University, Sagar, 13th - 14th February 2002, '*Whadiboli Ka Kavya*'. (iv) organised by Chowgule College, Margao, 18th - 19th February 2002, '*Surdas ki Gopiya Aur A*

(v) Seminar organised by Mumbai University, Mumbai, 26th - 27th February 2002, '*1 Singh Kee Aalochana Drushti*' (vi) Seminar by M.G. University, Kottayam, 19th Marcl '*Samakaleen Kavita Ka Samaj Shastra*'.

R. N. Mishra (i) Seminar organised by Bhartiya Hindi Parishad, Cochin, 8th - 9th January 2002, '*Uttarsi Trilochan Ki Kavita*'. (ii) Seminar by U.G.C., New Delhi at Chowgule College, Margao, I E February 2002, '*Jayasi Ke Kavya Mein Sampradayeeek Ekta*'.

Ishrat Bi Khan, State seminar organised by U.G.C. & Madhoji Mahavidyalaya, Phaltan, 9th - 10th F 2002, '*Prabha Khetan Ke Upanasoin Mein Aadhunika*'.

Ravindra Mishra Katyayan, (i) National seminar of UGC & S.B. College, Thane, lanasanchar Mad Kee Chunautiyan', 12th January 2002, '*Hindi Patrakarita : Dasha Aur Disha*'. (ii) National ser UGC & Dr. Hari Singh Gaur Vishwavidyalaya Sagar, '*Khadee Bolee Hindi Kee Bisavin Sha 13th - 14th February 2002, 'Chhayavad Aur Khadee Bolee*'. (iii) National seminar of Institute IN Braganza & Goa University, Sanchar Madhyam', 22nd February 2002, '*Ratkatha Lekha* National seminar of Mumbai University, '*Hindi Aalochana Aur Dr. Namwar Singh*', 26th February 2002, '*Chayavadi Aalochana Ke Pratiman Aur Nam war Singh*'.

2.1.6 Publications: (a) Research Articles : (Name, Title, JournalNolume, Month/Year).

B. K. Sharma '*Rohitashva*', (i) *Muktibodh Ki Kavita - Ek Antarkatha Fanta - San geet Vishleshan*', Mad October 2001. (ii) '*Agee Kee 'Ao Ni Sang Mametar Kavita Aur Kavya Titeersha*', Dhool 2001

R. N. Mishra, (i) '*Pant Kavya Mein Manavatavadi Drishti*', Bhasha journal, Volume 06, July - Augu! (ii) '*Mein Kuwara Hi Kyon Raha*', Samakaleen Bharatiya Sahitya, Delhi, Vol. 96, July - Augul (iii) '*Hindi Sahitya Mein Pawas*', Bharatvani, Dharwad, 10th January 2002.

Ishrat Bi Khan, '*Prabha Khetan Ke Upanaason Mein Aadhunilaa*', Journal - Sahitya Saurabh, Mahavidyalaya, Phaltan, February 2002.

Vrushali Mandrekar, '*Marrzakato Ki Samiksha*', Sodh, 2001.

Ravindra Mishra Katyayan, (i) '*Kabeer Rachanaon Kee Sarvabhaumikata*', Journal - Pragatisheel Mumbai, Vol-I, April-June, 2001. (ii) '*21 vee Sadi Kee Sahityik Patrakarita : Upalabdhiya,, Sambhavanayen*', Journal — Madhyam, Hindi Sahitya Sammelan, Allahabad, Vol.-05, January 2002. (iii) '*Sahityik Parikrama: 2001*', Journal - Hindi Prachar Vani, Bangalore, March 2002.

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

B. K. Sharma '*Rohitashva*', *Vartaman Paripreksha Mein Hindee Sahitya*, article included in Book - '*Aal Ka Auchitya Aur Sambhaavanaaye*', 2002.

R. N. Mishra, *Kavya Swad Ke Navya Neelcash*, Naresh Prakashan, New Delhi, 2001.

Ravindra Mishra Katyayan, *Dakshin Bharat Kee Hindi Patrakarita*, Lok Bharti Prakashan, Allahabad, 2(

2.1.8 Ph. D. degree conferred during the year: (Name of Candidate, Subject, Title of Thesis).
Sudha Singh, Hindi, Aathven Dashak Ke Upanyaason Ka Soundrayabodhi Anusheelan.
Jaikaran Hirekar, Hindi, Amritray Ka Katha Sahitya: Madhyavargeeya Jeevan.

2.1.9 Any other information:

R. N. Mishra, Visited Rome University, Italy, 1 - 15th dune 2002 and delivered lectures on 'History of Hindi Literature'.

DEPARTMENT OF KONKANI

2.1.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

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

Madhavi Sardesai, M. Phil, *Lecturer*

P. S. Tadkodkar, M.A., *Sr. Lecturer*

Prakash Parienkar, M. A., *Lecturer-CKDS*

Chandralekha D'Souza, Ph.D., *Sr. Lecurer*

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

P. S. Tadkodkar, Translation of *Rhartiya Sahitya Shastra'* (Marathi) by G.T. Deshpande into Konkani, 2001, CICDS.

2.1.5 Seminars/Conferences/Workshops, etc.

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

P. S. Tadkodkar, Sahitya Akademy (New Delhi), 7th - 8th November 2001, 'Konkani Writers & Cultural Boundaries', Kumtha-Karnataka, Konkani Writers & Cultural Boundaries with reference to Konkani Essay.

C. D'Souza, (i) Bhasha Sangam, Chennai 25th - 26th August 2001, 'Tristao Braganza Cunha' - Goa's Freedom Fighter'. (ii) Mudhoji Mahavidyalaya, Phaltan, 9th - 10th January 2002, '*Lambi Kahaniyon Mein, Dalit Sandarbh'*. (iii) Dakshin Bharat Hindi Parishad, Cochin University, 8th - 9th January 2002, '*Uttarshati Ke Sahli-31a Mein Sansmaran Vidha'*.

Madhavi Sardesai, 'Goa within the Nation and without', Department of Political Science, Goa University, Goa, February 2002, 'Konkani Kinship Terminology: A Comparative Excursion'.

(b)(ii) Attended: Workshops: (Name of the Teacher, Theme Of Workshop, Place, Dates).

C. D' Souza, Recommendations to the Unicode Consortium for the Indian Scripts for Konkani. New Delhi, 10th -11th September 2002.

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

O. J. F. Gomes, 'The Indo-Portuguese Cultural Encounter-Action, Interaction, Attrition & Proceedings of International Congress, 'Vasco Da-Gama Men, Voyages & Cultures'. (pp 306-322), 2001.

P. S. Tadkodkar, One Act plays: with special reference to Pundalik Naik's 'Chaurang'.

C. D' Souza, (i) *Lambi Kahaniyon Mein*, Dalit Chetna. (ii) *Kamchitran aur Karmelin*, Shatabdi Volume, August 2001. (iii) Article on Konkani Children's literature included in the book *Akhil Bharatiya Hal Sahitya Ka ithihas ed.* By Jayprakash Bharati, New Delhi: Bhavana Prakashan, 2002.

Madhavi Sardesai, Woman's Voice in Konkani Novels, Jaag, November 2001.

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

C. D' Souza, (i) *Sam-Vad*, Bhavana Prakashan, New Delhi, 2002.

DEPARTMENT OF MARATHI

2.1.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

S. D. Komarpant, Ph. D., *Professor & Head*
V.D. Sawant, Ph. D., *Reader*
S. M. Tadkodkar, Ph. D., *Reader*

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

2.1.5 Seminars/Conferences/Workshops, etc.

(b) (i) Attended: Seminars/Conferences: (Teacher, Theme of Conference, Place, Title of Paper).
V. D. Sawant, Jayawant College, Ichalkaranji, 10th February 2002, 'Novel - a literary form'.

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

S. D. Komarpant, (i) '*Marathi Sahitya Sammelan: Marathi Vishayek Bhumika*' Gomantakachee A
Gomantak, Marathi Academy, November 2001. (ii) '*Marathi Kavitetil Parjanya- Chitre*'
Diwali Special, November 2001.

V. D. Sawant, '*Samiksheteel Navya Sankalpana*': 'Deshivad', June 2001.

S. M. Tadkodkar, 'Marathi Literature before the Advent of Portuguese in Goa', Anubandh, 26/1 April
2002.

B. G. Kanolkar, '*Sathottary Gomantakiya Marathi Katha Ek Alekhan*', Chandrawadi, (24th Gov
Marathi Sahitya Sammelan) November 2001 .(ii) '*Gomantakiya Marathi Kavita*' Anthology of 0
Marathi Poetry, 2001.

DEPARTMENT OF PORTUGUESE

2.1.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

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

Maria C. Barreto, M. A., Lecturer

2.1.5 Seminars/Conferences/Workshops, etc.

(b)(i)Attended: Seminars/Conferences: (Teacher, Theme of Conference, Place, Title of Paper).
Maria C. Barreto participated as resource person in the workshop for Teachers of Portuguese (school I
February 2001, Goa Board, Secondary & Higher Secondary Education.

2.1.6 Publications:

(b) Books: (Name, Title of Book, Publisher, Month/Year).

Maria C. Barreto (Co-author), (i) '*Horizontes Portuguese*, Part- VIII, Goa Board SHSE, 2001. (ii) '*Hori
Portuguese*, Part- IX, Goa Board SHSE, 2001.

2.2 FACULTY OF SOCIAL SCIENCES

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

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

Dean of Faculty, *Chairman*
Peter R. Desouza, *Member*
A. V. Afonso, *Member*
N. Jayaram, *Member*
A. R. Padoshi, *Member*
Pratima Kamat, *Member*

S. M. Noronha, *Member*
A. Fernandes, *Member*
M. Pius, *Member*
Ganesh Somayaji, *Member*
S. D. Pai Vernekar, *Member*

DEPARTMENT OF ECONOMICS

2.2.1 List of the Teaching Staff: (Name Qualifications, *Designation*).

S. M. Noronha, Ph. D., *Reader & Head*

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

Pranab Mukhopadhyay, M. Phil., *Lecturer*

2.2.2 Highlights of the Research Activities :

S. M. Noronha, two research papers on (i) Employment of Women in the Primary Sector in Goa (ii) Changing Pattern of Employment in the Primary Sector in Goa.

P. Mukhopadhyay, working on a project from the South Asian Network of Development & Environmental Economics, Kathmandu which is examining the Implications of Property Rights in Resource Use and Allocation Decisions under Changing Institutional Scenario.

P. K. Sudarsan, (i) Working on minor research project, "India's International Trade in Services: A study on Nature & Growth". (ii) Two research papers, "Economic Reforms in China: What lessons for India" and "Understanding Financial Crises: A Theoretical Analysis".

2.2.3 List of Visiting Scholars: (Name of the Scholar, Institutional Affiliation, Title of Lecture Delivered, Name of the Department, Date).

Kirit Parikh, Indira Gandhi Institute of Development Research, Mumbai, delivered the G. V. Kamat Helekar Memorial Lecture, '*Second Generation Economic Reforms in India*', 30th August 2001.

2.2.5 Seminars/Conferences/Workshops, etc.

(a) Organized : (Title/Theme, Dates, Funding Agency, Name of the Department).

(i) Workshop on Environmental Economics, 30th August - 1 September 2001 in association with EERC, Indira Gandhi Institute of Development Research (IGIDR), Mumbai. (ii) All Goa Economics Teachers' Meet, 15th February 2002, Goa University.

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

S. M. Noronha, Institute for Social and Economic Change (ISEC), Bangalore, 18th — 20th Dec. 2001, Changing Pattern of Employment in the Primary Sector in Goa.

Pranab Mukhopadhyay, Durban, South Africa, 28th - 30th May 2002, Resource Use and Property Rights.

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

Pranab Mukhopadhyay, Inter-disciplinary Research Workshop in Environmental Economics, Institute of Social and Economic Change, Bangalore, 22nd - 24th July 2001.

2.2.9 Any other information :

a) Fellowship/Visiting Professorships etc.

Pranab Mukhopadhyay, Visiting Scholar, University of California, Berkeley, USA, November-December 2001.

DEPARTMENT OF HISTORY

2.2.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

Pratima P. Kamat, Ph.D., *Reader & Head*, (W15/2/2002)

Ujjayan Bhattacharya, M.Phil., *Lecturer*

N. Shyam Bhat, Ph.D., *Reader & Head*, (since 6/2/2002)

Nagendra Rao, Ph.D., *Lecturer*

Pius Malekandathil, Ph.D., *Reader*

R. Venugopalan Nair, M.A., *Lecturer*

2.2.2 Highlights of the Research Activities:

The thrust areas of the Department are Indo—Portuguese History and Maritime History. A few faculty members of the Department worked on research projects related to these subjects. Pratima Kamat carried out research work on projects like "Peasantry of the Colonial State and the National Question in Goa 1946- 1961" and "The Family Laws of Goa: A Gender Audit". Pius Malekandathil pursued research on projects like "Maritime

Communities of Konkani - A Study of the Society and Economy: 800 A.D. to 1750 A.D." and "Ship-1 and Navigation in Kerala during the time of the Portuguese". Other faculty members had worked respective fields of specialization like Ancient, Medieval and Modern periods of Indian History. Most faculty members published books and research papers in reputed journals and edited volumes.

Ujjayan Bhattacharya submitted his Ph. D. thesis to J.N.U., New Delhi, in September 2001 on "Making (Colonial Bengal: Agrarian Economy, Institutions and Agency, C. 1750 to 1800".

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

Pius Malekandathil, "Maritime Communities of Konkani: A Study of the Society and Economy, 800 AD AD ", August 2001, ICHR, New Delhi, Rs. 75,000/-

2.2.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agencies).

Pratima Kamat, Organised a Workshop for Under-Graduate teachers of History in the revised Paper V (of Goa), 9th July 2001, Academic Staff College, Goa University.

Pius Malekandathil, International Seminar on "Maritime Malabar and the Europeans: 1498-1962" Tellicherry, 13⁰¹ - e.111

16 January 2002, ICHR, Maulana Abul Kalam Azad Institute, Kolkata; Fundacao (Lisbon, History Department of Goa University and Pondicherry Central University.

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

Pratima Kamat, Pontificia Universidade Catolica do Parana, Curitiba, Brazil, 24th - 26th May 2002, "O-I Oriente — Ocidente: O Caso de Goa."

Pius Malekandathil, (i) Pondicherry Central University, Kannur University and Goa University, Tellicherry -18th January 2002, "Maritime Malabar and a Mercantile State: Polity and State Formation in 11 under the Portuguese." (ii) Liturgical and Historical Research Centre, Kakkannadu, Cochin, 27th September 2001, "St.Thomas Christians: A Historical Analysis of their Origins and Development 9th century A.D." (iii) History Department, University of Calicut, Calicut, 21st - 22nd January "Agrarian Production and Control Systems in Malabar under the Portuguese". (iv) Department Political Science, Goa University, Goa, 20th February 2002, "The Changing Perception of Goa Church". (v) Centre for Studies in Civilizations and Indian Council of Philosophical Research v funding of HRD Ministry, New Delhi, 26th April 2002, "The St.Thomas Christians in India Indian History Congress, Bhopal, 28th - 31st December 2001, "The Jews of Cochin and the Port (1498-1663)"

Ujjayan Bhattacharya, Indian History Congress, Bhopal, 28th - 31st December 2001, "Revenue Assessment Policy and Reformulation of the Charges of Revenue Collection (1770-89)."

(b) (ii) Workshop: (Name of the Teacher, Theme of Workshop, Place, Date, Title of Paper).

Pratima Kamat, (i) Goa Heritage Festival, Kala Academy, Goa, 26th — 27th November 2001. (ii) Empowerment in the Constitutional Context, Goa University, 5th December 2001.

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

Pratima Kamat, (i) "From Conversion to the Civil Code: Gender and the Colonial State in Goa, 1510-196" *Indian Historical Review*, New Delhi, Vol. XXVII, No. II July 2000. (ii) "Goa Indo-Portuguese Engineering of Goan Society through Colonial Policies of Coercion and Collaboration, 1510-Portuguese Study Review, Special Double Number: *The Evolution of Portuguese Asia*, 1498 Vol.9, Nos.1 and 2, 2001. (iii) "Goa: 'The Crèche of Cultures' *Souvenir of the Goa Heritage Group*", Goa, 2001. (iv) "Independent India's Tryst with the Liberation of Goa", *Goa in the Sub-Continent*, S.K.Mhamai (ed.), Goa, 2001. (v) "Syncretic Shaktipitha: The Image of the Feminine as Santeri-Shantadurga-Saibin in Goa", *Purabhilekh-Puratatva*, Goa, Vol. II. No. H. December, 2001.

N. S. Bhat, (i) "Trade in Portuguese Goa: The Nineteenth Century Scenario, Proceedings of *The Indian Congress*, Millennium, 61st Session, Kolkata, Part I., 2001. (ii) "Some aspects of Trade in Colonial Kanara and Portuguese Goa as reflected in the records of British East India Company half of the nineteenth Century", *Goa in the Indian Sub-Continent*, S.K.Mhamai (ed.) Goa., 2001.

Pius Malekandathil, (i) "Portuguese Casados and the Intra —Asian Trade: 1500-1663" *Proceedings of the Winn History Congress*, Millennium, 61' Session, Kolkata, 2001. (ii) "St.Thomas Christians and the Indian Ocean 52 AD to 1500 AD." *Ephrem's Theological Journal* (International Journal), Vol.5, No.2. October 2001. (iii) "The Portuguese and the St.Thomas Christians: 1500-1570 A.D.", *The Portuguese and the Socio — Cultural Changes in India: 1500-1800 AD*, (editors) K. S. Mathew, Teotoni R. de Souza and Pius Malekandathil, 2001. (iv) "Merchants, Markets and Commodities Some Aspects of Portuguese Commerce with Malabar." *The Portuguese, Indian Ocean and European Bridgeheads: Festschrift in Honour of K.S. Mathew*, (editors) Pius Malekandathil and Jamal Mohammed, 2001. (v) Book Review, Michael Mann's book *Benglen im umbruch: Die Herausbildung des britischen Kolonialstaates, 1754-1793*, *Das Jahrbuch der Forderverein Foschungs- stifling fuer vergleichende europaische Uebersee Geschichte*, Bamberg, 2001. (vi) Book Review, Jurgen Pohle's book *Deutschland und die uberseeische Expansion Portugals im 15 and 16 Jahrhunderts*, *Periplus 2001: Jahrbuch fuer ausser europaeische Geschichte*, Munster, 2001.

Ujjayan Bhattacharya, (i)"Asian States and Mercantilism in the Indian Ocean Economy: Nizamat and the English Company in 18th Century". *The Portuguese, Indian 'Ocean and European Bridgeheads: Festschrift in Honour of K.S.Mathew* (Editors) Pius Malekandathil and Jamal Mohammed, 2001. (ii)"Agrarian Societies and Institutions of Control and Enforcement of Order under the early Colonial Regime (1760- 1793)", *Proceedings of the Indian History Congress*, Millennium, 61st Session, Kolkata, 2001. (iii) "Terms of Reference and Teaching of History in Goa.", *Goa: Educational Institutions through The Ages*, S.K.Mhamai (ed.), Goa, 2001.

Nagendra Rao, (i) "The Portuguese and the aspects of Trade in Ports of South Kanara.", *The Portuguese, Indian Ocean and European Bridgeheads: Festschrift in Honour of K.S.Mathew*.(Editors) Pius Malekandathil and Jamal Mohammed, 2001. (ii) "The Making of Local Puranas in South Western India: A study of Brahmanical Traditions.", *Pondicherry University Journal of Social Sciences and Humanities*, Pondicherry, Vol .3, No.1, Jan. 2002. (iii) "Aspects of Crafts Production in Pre-Modern South Kanara." *Artha Journal of Social Sciences*, Vol. I, No. I, March to Aug. 2002.

(b) Books: (Name, Title of the Book, Publisher, Month/Year).

N. S. Bhat, *Judiciary and Police In Early Colonial South Kanara, 1799-1862*, Mittal Publications, New Delhi, 2001.

Pius Malekandathil & Jamal Mohammed (editors), *The Portuguese, Indian Ocean and European Bridgeheads: Festschrift in honour of K. S. Mathew*, Fundacao Oriente, Lisbon, 2001.

K. S. Mathew, T.R. de Souza and Pius Malekandathil (editors), *The Portuguese and the Socio — Cultural Changes in India: 1500-1800*, Fundacao Oriente, Lisbon, 2001.

Pius Malekandathil, *Portuguese Cochin and the Maritime Trade of India, 1500-1663*. (South Asian Studies Series, Heidelberg University, Germany), Manohar Publishers, New Delhi, 2001.

2.2.8 (b) Ph.D. Degree Conferred during the year: (Name of the Candidate, Subject, Title of the Thesis).
Nagendra Rao, History, "Craft Production and Trade in South Kanara: A.D. 1000-1763".

DEPARTMENT OF PHILOSOPHY

2.2.1 List of the Teaching Staff: (Name, Qualifications, Designation).

A. V. Afonso, Ph. D., *Professor & Head*

Koshy Tharakaii, M. Phil., *Lecturer*

U. A. Vinay Kumar, Ph. D., *Lecturer*

Milan B. Desai, Ph. D., *Lecturer*

Sanjyot D. Pal Vernekar, Ph. D., *Lecturer*

2.2.2 Highlights of the Research Activities :

A. V. Afonso, engaged in research on historical evolution of Indian Christianity as a system of religion in Indian subcontinent.

S. D. Pai Vernekar, dealt at length with the concept of Human Cloning from philosophical, religious, scientific, ethical and legal perspectives. The various pros and cons of the techniques were also taken into account.

Koshy Tharakan, research on phenomenological perspectives in social sciences. Also focused on the interface between analytical and phenomenological approaches to social reality.

Milan B. Desai, initiated research into the philosophy of mind with special emphasis on Indian views.

2.2.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Title/Theme, Dates, Funding Agencies).

- (i) Refresher Course on "*Philosophical Foundations of Hinduism*", 5th - 26th March 2002, Indian Council of Philosophical Research New Delhi. (ii) National Seminar on "*Science and Philosophy: A Dialogue between Scientists and Philosophers*", 26th - 28th March 2002, Indian Council of Philosophical Research, New Delhi. (iii) Seminar on "*Christianity In India*", 26th April 2002, Centre for Studies in Civilizations, New Delhi.

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

A. V. Afonso, (i) Seminar on *Rethinking Modernity* organized by ICPR and SSU, Kalady, Department of Philosophy, Sankaracharya University, Kalady, 16th - 18th November 2001, *Social versus Natu Image of Science*.

(ii) Colloquium on *Consciousness* organized by Centre for Studies in Civilizations, New Darshan Bhavan, New Delhi, 13th - 14th December 2001, *Understanding Consciousness As Dependent Linguistic Process*.

(iii) Seminar on *Philosophical Consciousness And Scientific Knowledge: Conceptual Linkage Civilizational Background*, Darshan Bhavan, New Delhi, 1st - 3rd March 2002, *Science, L Discovery and Metaphors*.

(iv) Seminar on "*Science and Philosophy: A Dialogue between Scientists and Philosophers*" or by Department of Philosophy and ICPR, New Delhi., International Centre, Goa, 26th - 28th 2002, *Metaphors and Growth of Science*.

(v) Seminar on "*Christianity in India*" organized by Centre for Studies in Civilizations, New Darshan Bhavan, New Delhi, 26th April 2002, *Understanding 'Conversion' in Christianity*.

Sanjyot D. P. Vemekar, (i) Seminar on "*The Philosophy of Sri. Aurobindo*", Pallotti Institute of Philosophy, Religion, Assagao, Goa, 2nd October 2001, "*Aurobindonian Ontology with respect to the Scientific Theories of the Origin of the Universe*". (ii) Seminar on "*Contemporary Issues in Religion*" Aligarh Muslim University, Aligarh, 5th - 7th February 2002., "*Human Cloning: What If.....*"

Koshy Tharakan, (i) Seminar on *Rethinking Modernity*, organized by ICPR and SSU, Kalady, Department of Philosophy, Sankaracharya University, Kalady, 16th - 18th November 2001, "*Discussion on Understanding Social Science in the Context of Rethinking Modernity*." (ii) ICPR and Univei Hyderabad, Department of Philosophy, University of Hyderabad, 16th - 18th January 2001; *Ontological Basis of Society: Comments on Prof Daya Krishna's Differentiation among Art, and Nature*."

(b)(ii) Workshop: (Name of the Teacher, Theme of Workshop, Place, Date, Title of the Paper).

Koshy Tharakan, "*Science and Philosophy: A Dialogue between Scientists and Philosophers*", International Centre, Goa, 26th - 28th March 2001.

Milan Desai, (i) "*Science and Philosophy: A Dialogue between Scientists and Philosophers*", International Centre, Goa, 26th - 28th March 2001. (ii) *Navya-Nyaya Language and Methodology*, Department of Sanskrit, University of Pune, Pune, 18th - 28th September 2001.

Sanjyot D. P. Vemekar, "*Science and Philosophy: A Dialogue between Scientists and Philosophers*" International Centre, Goa, 26th - 28th March 2001.

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

Sanjyot D. P. Vemekar, (i) Sri Aurobindo's Marriage to Mrinalini, *The Call Beyond*, Vol.26, No.: September 2001. (ii) Philosophy's Tryst with Modern Sciences: Sri Aurobindo's Ontology as a Paradigm, *Mother India*, Vol. LV, Nos. 4 & 5, April and May 2002.

DEPARTMENT OF POLITICAL SCIENCE

2.2.1 List of the Teaching Staff: (Name, Qualifications, Designation).

Peter R. de Souza, D. Phil.(Sussex), *Professor & Head* Aureliano Fernandes, Ph. D., *Reader*
Rahul Tripathi, M. Phil., *Lecturer*

2.2.2 Highlights of the Research Activities :

The Department of Political Science continued to focus on political institutions and processes in Goa broad area of research. A two days seminar on 'Goa : Within the Nation and Without' deliberated on d

dimensions of Goa's location within the local, regional and national discourse. The other major seminars during the year included 'Human Rights and Vulnerable Groups' which was inaugurated by Governor of Kerala, H.E. Justice Sukhdev Singh Kang, and 'Profiling Federalism : India and Germany in association with Konrad Adenauer Foundation New Delhi. The faculty was engaged in research on areas relating to Status of Social Science Research in Western India, Local Government, Federalism, Human Rights and South Asian Regionalism. For M.A. Dissertations, students were encouraged to study structure and functioning of Government Departments and State Commissions.

2.2.3 List of Visiting Scholars: (Name of Scholar, Institution, Title of Lecture, Date).

- Ellis Katz, Centre for the Study of Federalism at Temple University in Philadelphia, Pennsylvania, 'American Federalism, and Federal - State Relations', 30' August 2001.
- Upendra Baxi, University of Warwick, U.K., 'Philosophy of the Indian Constitution', 12th September 2001.
- Evelin Hust, South Asia Institute, University of Heidelberg, 'Women's Political Presence and Empowerment in Panchayati Raj : The Case of Orissa', 7th January 2002.
- Barbara Lots, University of Heidelberg, 'In Search of Identity: A Study of the Santhali Language Movement', 13th March 2002.
- Justice Zakeria Mohammed Yacoob, Judge of Constitutional Court of South Africa, 'Discrimination and Equality', 22nd March 2002.

2.2.5 Seminars/Conferences/Workshops, etc.

(a) Organized : (Title/Theme, Dates, Funding Agencies).

- (i) 'Goa : Within the Nation and Without', 21st - 22nd February 2002, ICSSR, Western Region. (ii) 'Human Rights and Vulnerable Groups', 27th November 2001, Goa University. (iii) 'Profiling Federalism - India and Germany', 30th March 2002, Konrad Adenauer Foundation, New Delhi.

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

Peter R. deSouza, (i) Ford Foundation, New York, 2nd - 3rd September 2001, "Decentralization : Explorations of Local Government in India and the U.S." (ii) Centre for the Study of Developing Societies, Goa, 6th .

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September 2001, "Institutional Visions & Sociological Imaginations: The Debate on Panchayati Raj." (iii) Social Science Research Council, New Delhi, 30th - 31st October 2001, "Social Science Research in Western India : An Aerial Survey." (iv) International Centre, Goa, 5th December 2001, "Limited Governance: The Goa Experience." (v) Department of Political Science, Goa University, Goa, 21st- 22nd February 2002 "Revisiting T.B. Cunha's Denationalization Thesis."

Aureliano Fernandes, (i) Karl Kubel Institute of Development Education, Coimbatore, 28th - 29th December 2001, "Aggrandiser Government and Local Governance in Goa." (ii) Centre for Japanese Studies, Benaras Hindu University, Benaras, 2nd - 4th January 2002, "Japan's Bureaucracy Reforms and Lessons for India." (iii) Dept. of Political Science and Western Regional Centre, ICSSR, Goa, 21st - 22nd February 2001, "Mainstreaming Goan Polity: from Nationalism Discourse to Utilitarian 'Bungee Jumping'." (iv) Goa Union of Journalists, Panaji, Goa, 28th February 2002, "The Governor and Dissolution of the X Goa Assembly." (v) Dept. of Political Science and Konrad Adenauer Foundation, New Delhi, 31st March 2002, "The Governor and Degenerative Politics in Goa."

Rahul Tripathi, (i) School of International Relations, M.G. University, Kottayam, 19th - 21st December 2001, "Democracy & Regionalism in South Asia." (ii) Department of International Relations, Jadavpur University, Kolkata, - 8th March 2002, "SAARC Convention on Suppression of Terrorism : An Agenda for Relocation." (iii) Department of Political Science, Goa University, Goa, 21st - 22nd February 2002, "Recovering Goa Within : A Case of Mhadai Bachao Abhiyan." (iv) Department of Political Science, Goa University, Goa, 27th November 2001, "International Humanitarian Law & Vulnerable Groups." (v) Asian Studies Centre of Michigan State University, Michigan, 15th - 16th March 2002, Paper Presented in absentia - "Reorienting the Refugee Rights Discourse in South Asia."

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

Peter R. deSouza, (i) Consultation meeting for Course Outline of Civil Services Examination, New Delhi, 27th June 2001. (ii) Food Security and Dalits, Goa, October 2001.

Aureliano Fernandes, National Commission to Review Working of the Constitution and All India Institute of Local Self Government, New Delhi. The 73rd Amendment : Some Proposed Changes, ICG, Goa, 12th March 2002.

2.2.6 Publications: (a) Research Articles: (Name of the Teacher, Title, Journal, Volume, Month/Year)
 Peter R. deSouza, (i) 'Whose Representative', Seminar, 506, October 2001. (ii) 'The Absent Intellectuals & their domain', Economic & Political Weekly, April 2002.
 Aureliano Fernandes, (i) 'Changing Role in Panchayats in the New Millenium', Kurukshetra, Ministry of Development, Government of India, pp 13 to 22, November 2001. (ii) 'Goa - a Dem Becoming' Nave Parva Dept. of Information & Publicity, Govt. of Goa, 15th August 2001.

2.2.7 Sponsored Consultancy work undertaken: (Name of the Teacher, Nature of Consultancy, Name Sponsorer, Duration of Consultancy, Amount).

Peter R. deSouza, Social Science Research Council, New York, 6 months, Rs. 71,250/-

2.2.8 (b) Ph.D. Degree Conferred during the year: (Name of the Candidate, Subject, Title of the Thesis)
 Seema P. Salgaonkar, Political Science, 'Women, Political Power and the State in Goa'.

2.2.9 Any other information :

b) Fellowship/Visiting Professorships etc.

Peter R. deSouza visited U.S.A. for one month under the Ford Foundation project 'Democracy and Development in India and the American Experience'. He made a presentation on 'Contemporary India' at Kettering School of Government, May - June 2001. He also visited Yale University and the University of California at Berkeley.

DEPARTMENT OF SOCIOLOGY

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

Narayana Jayaram, Ph. D., *Professor & Head*

Manish Kumar Thakur, M. Phil., *Lecturer*

Ganesh Somayaji, Ph. D., *Reader*

Sujatha V., Ph. D., *Lecturer*

Alito Siquiera, M.A., *Lecturer*

Dilip Loundo, Ph. D., *Brazilian Chair*

2.2.2 Highlights of the Research Activities :

Goa is the thrust area for the research activities of the Department. The various areas of interest for the Department are: Migration and Diaspora, food, health, colonial and post-colonial constructions of village, comparative coloniality, language and tourism. Field-based studies on GOa are encouraged for MA dissertation. Organisation of an Annual Research Methodology Training Camp is aimed at equipping the student; research methods prior to their dissertation work. Also, the Department encourages researchers from institutions to use the Department in mutually enriching exchanges.

2.2.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Title/Theme, Dates, Funding Agencies, Name of the Department).

(i) Language Question in Goa: Cultural Identity and Political Mobilisation, 4th February 2002, ICSSR, Regional centre Mumbai, Sociology. (ii) Festival of Contemporary Brazilian Cinema, 10th - 13th January Embassy of Brazil, Department of Sociology.

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

N. Jayaram, (i) ZG College, Kozhicode, 8th July 2001, 'The Role of Sociology in Contemporary Society', Mangalore University, College Teachers Association, Udupi, 17th - 19th August 2001, 'Restructuring Degree Education: Curriculum and Pedagogy.' (iii) Naresuan University of Phitsanulok, Thailand - 15th November 2001, 'Globalisation of Cyberspace, and Culture: Deterritorialised Communities Imagined Civilisation (The Case of Indian Diaspora).' (iv) Guru Nanak Dev University, Amritsar - 28th December 2001, "The State of the Profession: Indian Sociology - Yesterday, Today Tomorrow: 'The Golden Jubilee and Beyond: Reflections on the "Profession"'. (v) Centre for American Studies, Goa and JNU, New Delhi, Goa, 21st - 22nd February 2002, 'The Metamorphic Caste Among Trinidad Hindus.' (vi) University of Pune, 22nd - 23rd February 2002, 'The 1st Diaspora in Canada: An Analytical Introduction to Themes and Issues.'

Ganesh Somayaji, Sri Venkateswara University, Tirupati, 26th - 27th November 2001, Freedom from Hinduism: New Social Security for the Elderly in Goa.

Alito Siqueira, Estudos internacionais de Lusotopie, Paris, Porto, 28th November - 1st December 2001, A Short Note on Portuguese Identity and its Resonance in Goa and India.

M. K. Thakur, (i) Barkatullah University, Bhopal, 2nd - 5th October 2001, The Dalit Discourse on Human Rights: Durban & Beyond, (ii) Sri Venkateswara University, Tirupati, 26th - 27th November 2001, 'Sociology and the Challenge of Development: Outline of a New Agenda. (iii) Guru Nanak Dev University, Amritsar, 26th - 28th December 2001, The Politics of Minority Languages: Some Reflections on the Maithili Language Movement (iv) Goa University, Goa, 4th February 2002, Language, Identity and Politics: Issues and Concerns. (v) Utkal University, Bhubaneswar, 8th - 9th February 2002, Globalisation: Some Sociological Queries.

V. Sujatha, (i) University of Agricultural Science, Bangalore and Texas A & M University, USA, Bangalore, 24th - 26th July 2001, Role of Indigenous Knowledge Systems in Socio-Economic Progress. A Case from India. (ii) Madras Medical Mission, Chennai, 25th - 26th May 2002, 'The Medico Social Aspects of Womanhood' International Conference in Medical Sociology.

Dilip Loundo, (i) Federal University of Pernambuco, Brazil (Recife) New Delhi, June, "Religiao Como Praxis e Como Ideologia". (ii) Jawaharlal Nehru University, New Delhi, November, "A Tribute to Brazilian Writer Jorge Amado".

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

N. Jayaram, Sociology as Praxis: Issues of Curriculum and Teaching in Indian Universities,' University of Pune, 8th March 2002.

Alito Siqueira, 'Cultural Studies Workshop — Post Colonial Cultures', Shantiniketan, 25th - 31st January 2002, Goa: Between Occidentalism and Orientalism.

V. Sujatha, 'Workshop on Indigenous Knowledge', Madras Institute of Development Studies, Chennai, 28th August 2001.

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

N. Jayaram, (i) "Science, Technology and Development: A Sociological Appraisal of the Indian Experience," The Interface of the Social Sciences and Science and Technology in Development and Modernization of International Federation of Social Science Organisations, 2000. (ii) "Reorientation of Higher Education in India: A Prognostic Essay", Partnership in Development: Technology and Social Sciences, Universities, Industry and Government, Ecole Speciale des Travaux Publics, 2001.

Ganesha Somayaji, (i) "Whither Tribal Self-Governance? Developing the Tribals of Non-Tribal Areas", Social Action: A Quarterly Review of Social Trends, Vol. 52 No.2, April-June 2002. (ii) "Gastronomic Tradition and Development in the Kuta Maha Jagat", Artha: Journal of Social Sciences, Vol.1 No. 1, March-August 2002.

Alito Siqueira and Ligia Noronha, 'Goa: Trousing of Migrations, and Ecosystem Transformations, Ambio, Vol. 31, No. 4., June 2002.

M. K. Thakur, 'Durban Conference', Redical Humanist, 65:8, November 2001.

V. Sujatha, (i) Food: The immanent cause from outside. Medical lore on food & health in Village TN., Sociological Bulletin, V-51 No(1), March 2002. (ii) Internal to External-Transformation of the Ecology and body system, Review of Development and change, Vol-VI No(2), July-December 2001.

Dilip Loundo, Changing Times & Paradigms, Hispanic Horizon, 20th September 2001.

(b) Books: (Name, Title of the Book, Publisher, Month/Year).

Dilip Loundo, 'Tropical Rhymes, Topical Reasons', National Book Trust of India, 2001.

CENTRE FOR LATIN AMERICAN STUDIES

2.2.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

V. Shivkumar, Ph. D., *Professor & Head*

Aparajita Gangopadhyay, M. Phil., *Lecturer*

Dalbir Singh, Ph. D., *Lecturer* (on study leave)

2.2.2 Highlights of the Research Activities:

The Centre has undertaken a compilation of Speeches, Presidents, Diplomats and Policy Makers of In Latin America under the grant of MEA. The Centre has also compiled three minor research projects.

2.2.3 List of Visiting Scholars: (Name of the Scholar, Institution, Title of the Lecture, Date).

R. Narayanan, Jawaharlal Nehru University, UGC Visiting Professor.

T. R. Subramanian, Salgaonkar College of Law, International law.

Celia Fisher, Spanish.

J. Bandopadhyaya, Jadhavpur University of Kolkata, Globalisation.

Sergio Mascarenhas de Almeida, Fundacao Oriente, Various programmes of the Foundation to the teach(students, 30th August 2002.

Luis de Souza and Nelson Azavedo, Goa and Gaunkary, 16th August 2002.

N. Srinivas, Recent Developments in East Timor, 3rd July 2002.

2.2.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Title/Theme, Dates, Funding Agencies, Name of the Department).

Indians in the Caribbean and recent development in the region, 21st - 22nd February 2002, Organised joi the Centre for Latin American Studies & Centre for American and West European Studies, SIS, JNU.

(b) Attended: (I) Seminars/Conferences: (Name, Organising Institute, Place, Date, Title of the

V. Shivkumar, (i) Centre for Latin American Studies, Goa, 21st - 22nd February 2002, An overview of inc Trinidad (ii) Discussion on Higher Education at Chennai. (iii) Attended CIIC Conference on Ind American Trade Relations at Chennai.

Aparajita Gangopadhyay, (i) Indian Social Science Academy Allahabad and University of Thiruvananthapuram, 28th January - 1st February 2002, Regional Security Arrangements in America: Lessons for South Asia. (ii) Centre for Latin American Studies, Goa, 21st - 22nd F(2002, India Policy towards its Diaspora. (iii) School of International Studies, Jadavpur Univei Kolkata, 14th - 15th March 2002, Globalisation and the Mercosur.

2.2.6 Publications: (a) Research Articles: (Name of the Teacher, Title of Journal, Volume, Month/Yea

Aparajita Gangopadhyay, India-Brazil Relationship in the Emerging International Context, The Brazilian Year 5, spring 2001.

V. Shivkumar, (i) Emerging trends in Indo-Latin American Relations, Commonwealth Publishers, Goa, 20 Glimpses of India from Argentina, 2002.

2.2.8 (b) Ph.D. degree conferred during the year: (Name of Candidate, Subject, Title of the Thesis,

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the Guide).

R. P. Pradhan, Latin America, US Policy towards Panama Canal, V. Shivkumar.

2.2.9 Any other information:

(b) Awards/Honours conferred.

Aparajita Gangopadhyay: Second prize in the Eassay Cometition organized by the candido Mendes Unir Brazil and the Publishers and Book Sellers Guild, Kolkata, India.

CENTRE FOR WOMEN'S STUDIES

2.2.1 List of the Teaching Staff: (Name, Qualifications, Designation).

Narayana Jayaram, Ph. D., *Professor*

Shaila Desouza, M. A., *Research Officer*

2.2.2 Highlights of the Research Activities :

Though the Centre is primarily a research and extension centre, it is now involved in the teaching program the University and offers two elective courses in the Sociology Department. One titled 'Sociology of G and another field-work based course titled 'Women and Child Welfare in Goa'. These courses have both designed in order to provide a better interface between field-based work and classroom teaching. The c are also in response to the noticed trend that Sociology students join NGO's and other social work organi2 after completion of their MA degrees. The research and extension in the Centre has concentrated on local

pertaining to women and children with specific focus on health and welfare. The Centre is also actively involved in various state-level bodies both in the government and civil society.

2.2.3 List of Visiting Scholars: (Name of Scholar, Institution, Title of Lecture, Date).

An intern from the University of Montreal was affiliated to the centre through the Shastri Indo-Canadian Institute Internship programme. She was working on a project in mining areas of Goa to 'Assess the Quality of Health Care of the Women in Mining'.

2.2.5 Seminars/Conferences/Workshops, etc.

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

Shaila Desouza, Regional Conference of the State Women's Commissions and N.G.O's to discuss Women's Empowerment, organized by the National Commission for Women and the Goa State Commission for Women, Goa, 12th - 13th September 2001, presented a critique of the National Policy for the Empowerment of Women 2001.

2.2.9 Any other information:

Involvement in Community work in Goa: 1) Member of the Managing Committee Development and Internal Living, (ACDIL), Goa. 2) Trustee of the Academy for Community Development and International Living. 3) Member, Advisory Committee on Economic Status of Women in Goa, set up by the Goa State Commission for Women Involvement in other Women's Issue and Community work: (i) State consultation Women's Issues' on 20th March 2001 at the Conference Hall of the Goa State Commission for Women, Old GMC Complex, Goa. (ii) Prepared the report for ACDIL's Project 'People's Participation in the Control of Malaria' which was funded by the Department of Science and Technology, Government of India, New Delhi.

2.3 FACULTY OF NATURAL SCIENCES

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

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

DEPARTMENT OF MATHEMATICS: (M. Sc.,

DEPARTMENT OF COMPUTER SCIENCES & M. Phil., Ph. D.)

TECHNOLOGY: (M.C.A., Ph.D.)

DEPARTMENT OF PHYSICS: (M. Sc., Physics,

DEPARTMENT OF EARTH SCIENCE:(M. Sc., Ph. D.) M. Sc., Electronics, Ph.D.)

FACULTY BOARD

Dean of Faculty, *Chairman*

V. N. Kamat Dalai, *Member*

P. R. Sarode, *Member*

A. G. Dessai, *Member*

K. S. Rane, *Member*

P. R. Rao, *Member*

P. S. Raikar, *Member*

B. R. Srinivasan, *Member*

A. G. Chachadi, *Member*

A. J. Jayanthan, *Member*

DEPARTMENT OF CHEMISTRY

2.3.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

K. S. Rane, Ph. D., *Reader & Head (since 22/3/2002)*

V. N. Kamat Dalai, Ph. D., *Professor*

J. S. Budkuley, Ph. D., *Professor & Head (upro 21/3/02)*

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

B. D. Desai, Ph. D., *Reader*

J. B. Fernandes, Ph. D., *Reader*

S. P. Kamat, Ph. D., *Reader*

A. V. Salkar, Ph. D., *Lecturer*

V. P. Kamat, Ph. D., *Lecturer*

S. G. Tilve, Ph. D., *Lecturer*

B. R. Srinivasan, Ph. D., *Lecturer*

B. Das Gupta, Ph. D., *Lecturer*

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

V. S. Nadkarni, Ph. D., *Lecturer*

V. M. S. Verenkar, Ph. D., *Lecturer*

2.3.2 Highlights of the Research Activities:

a) Thrust Areas for SAP

Solid state chemistry and Electro chemistry:

Major Research Activities of Inorganic/Physical teaching staff is in the area of Solid state synthesis characterization of materials useful for magnetic, electric, catalytic and fuel cell applications (perovskite, zeolites etc.)

Microscale Techniques: Goa University is first in introducing such techniques at undergraduate postgraduate level, laboratory courses to minimize expenditure on chemicals, save time, increase safety decrease pollution.

b) Synthesis and structural characterization of Group VI metal chalcogenides.

c) Organic polymers as nuclear track detection materials

d) Chemistry of natural products, heterocyclic chemistry and asymmetric synthesis.

e) Computational Chemistry: Department has expertise in this area. Students are offered computational Chemistry and are trained by way of small projects in this area.

f) In all branches of chemistry staff members work together with students in executing small workable projects as a part of M.Sc. syllabi.

g) Teaching staff is involved in research collaboration with various institutions in India and abroad Germany, USA, Japan, China, Portugal, etc.

2.3.4 Sponsored Research Projects sanctioned during the years: (Name of the Investigator/s, Topic Sanction, Funding Agency, Amount).

1) UGC-DRS-SAP Rs. 40 lakhs for 5 years (2001-2006) (Ist stage) X-ray diffractometer worth Rs. 25 lakhs major addition from this project. 2) DAAD — (German Govt.) Major equipment grant of Rs. 14 lakhs Salkar/ Srinivasan) DSC-TG NETZSCH equipment. 3) DAAD — DST (Bonn, Germany/ DST New Delhi research project for exchanging research students/staff from Goa University to three Universities in Germany (Rane, Project Leader). 4) UGC-Major — Nanomaterials/Inorganic Gr. VI materials (Rane/Srinivasan). 2) — Development of plastic materials for nuclear track detection (Nadkarni).

2.3.5 Seminars/Conferences/Workshops etc.

(b) (i) Attended: Seminars/Conferences: (Name of the Teacher, Theme of Conference, Place, 1 Paper).

K. S. Rane, 13th Annual General Meeting of Materials Research Society of India, IICT Hyderabad, (2002), Low temperature Synthesis of Gd₂Zr₂O₇Pyrochlores, (with V.M. Borkar and A.K. Tyag)

K. S. Rane, 13th Annual General Meeting of Materials Research Society of India, IICT Hyderabad, (2002), The electrical Conductivity of γ -Fe₂O₃ and Lithiated γ -Fe₂O₃ in the Presence of Ad Water (with A. Fernandes and R. Pednekar).

K. S. Rane, 13th National Symposium and Workshop on Thermal Analysis, BARC, Mumbai, India, I p.144, Thermal Analysis Aided Material Synthesis: LaAlO₃, LaSrAlO₃, CuFe₂O₄ and TiO₂, Weisweiler, H. Langbein, M. Crocoll, F. Kenfack and R. Pednekar).

B. R. Srinivasan, 13th National Symposium and Workshop on Thermal Analysis, BARC Mumbai, India, I p.59, Thermal Decomposition Studies of Magnesium(II) Complexes of Substituted Benzoic) Substituent Effect vs. Structural Stability, (with P.P. Hankare, S.C. Sawant and S.N. Dhuri).

A. V. Salker, 13th National Symposium and Workshop on Thermal Analysis, BARC Mumbai, India, (21 67, Thermal Studies of the Precursors in the Preparation of Manganite Spine's, (with S.M. Gurav

V. M. S. Verenkar, 13th National Symposium and Workshop on Thermal Analysis, BARC Mumbai, (2002), p.154, Synthesis characterization and thermal analysis of ferrous malato-hydrazinate S.Y. Sawant and K.R. Kannan).

V. M. S. Verenkar, National Symposium on Nanostructured Materials, IIT, New Delhi, India, (2002) Synthesis and Characterization of nanoparticle nickel ferrites using novel succinato-hydn precursor, (with Sulakshana Parab)

V. M. S. Verenkar, National Conference on recent advances in Chemical Sciences, M.G. University, Kot India, (2002), PP.30, Synthesis of ultrafine NiFe₂O₄ by autocatalytic combustion of suo hydrazinate precursor, (with Sulakshana Parab)

V. M. S. Verenkar, International Symposium on recent advances in Inorganic Materials, IIT, Mumbai, (2002), P.EM194, Synthesis of ultrafine nickel ferrite by autocatalytic combustion of a novel prec at room temperature, (with Ajit More)

- V. M. S. Verenkar, 1st IEEE International Conference on Sensors, Orlando, Florida, USA, (2002), P.37. I, Design and development of high performance NTC thermistors, (with R.K. Kamat and G.M. Naik)
- B. R. Srinivasan, 4th National Symposium in Chemistry, NCL Pune, India, (2002), p.1 63, Comparative Chemistry of Mg(II) Complexes of Amino and Nitro Substituted Benzoic Acids: Synthetic, Spectroscopic and Thermal Studies, (with S.C. Sawant).
- V. M. S. Verenkar, 9th National Seminar on Physics and Technology of Sensors, Pune, India, (2002), p.C-3:1, Development and optimization of nickel manganese oxide thermistors using oxalic precursors, (with R.K. Kamat and G.M. Naik).
- V. M. S. Verenkar, 9th National Seminar on Physics and Technology of Sensors, Pune, India, (2002), p.C-5:1, Novel manufacturing set up improves thermistor specifications, (with R.K. Kamat and G.M. Naik).
- V. M. S. Verenkar, p.C-4:1, 9th National Seminar on Physics and Technology of Sensors, Pune, India, (2002), Thermal analysis of nickel manganese carboxylate precursors for thermal applications, p.C-4:1, (with R.K. Kamat and G.M. Natk).
- S. P. Kamat, 4th National Symposium in Chemistry, NCL Pune, India, (2002), p.224, Sodium metaperiodate oxidation of isocarvacrol, (with A.M. D'Souza and S.K. Paknikar).
- K. S. Rane, International Symposium on Recent Advances in Inorganic Materials, IIT Mumbai, India, (2002).
K. S. Rane, International Symposium on Recent Advances in Inorganic Materials, Calcutta, India, (2002), (with V.M.S. Verenkar).
- V. M. S. Verenkar, 13th National Symposium and Workshop on Thermal Analysis, DDU Gorakpur University, Gorakpur, India, (2001), p.194, Synthesis, Characterization and thermal analysis of Ferrous malato-hydrazinate, (with K.S. Rane).
- R. N. Shirsat, Southern School on Computational Chemistry, Orange Beach, AL, USA, (2001) Ab-initio study of interaction of Chromium(III), H₂O and Guanine in nucleic acid.
- B. R. Srinivasan, 20th Annual Conference of Indian Council of Chemists (ICC), Mysore, India, (2001), Cation-Anion Interactions in Oxo and thiometalates of Group VI Metals, (with S.N. Dhuri).
- B. R. Srinivasan, 3rd National Symposium in Chemistry, Punjab University, Chandigarh, India, (2001), p.155, Synthesis, X-ray Structure Characterization and Reactivity Studies of Ethylenediammonium Tetrathiomolybdate, (with B.K. Vernekar).
- B. R. Srinivasan, 3rd National Symposium in Chemistry, Punjab University, Chandigarh, India, (2001), p. 193, Cobalt Carboxylate Chemistry: Synthesis, Characterization and Reactivity Studies of Substituted Benzoic Acid Complexes, (with R.D. Lawande and S.C. Sawant).
- V. M. S. Verenkar, 4th National Symposium in Chemistry, Punjab University, Chandigarh, India, (2001), p.133, Synthesis and Characterization of NiCo204 from Carboxylate Precursors, (with G.M. Sail).
- S. G. Tilve, 3rd National Symposium in Chemistry, Punjab University, Chandigarh, India, (2001), p-9 1 , In situ Homologation of Aldehydes to α , β -Unsaturated Esters, (with J.B. Shet).
- K. S. Rane, Inorganic Materials for the New Millennium (IMNM), IIT Madras, India, (2001), Value Added Materials from Goan Iron Ore Rejects: La_{1-x}Sr_xA_{103x/2}, (with R. Pednekar).
- B. R. Srinivasan, Inorganic Materials for the New Millennium (IMNM), IIT Madras, India, (2001), p.31, Mixed Metal Sulfides Derived From [(M54)²⁻ (M=1-40,W)] Anions, (with B.K. Vernekar).
- V. M. S. Verenkar, Inorganic Materials for the New Millennium (IMNM), IIT Madras, India, (2001), p.55, Synthesis of NTC Thermistors by Oxalic Precursor Route, (with R.K. Kamat and G.M. Naik).
- V. M. S. Verenkar, Inorganic Materials for the New Millennium (IMNM), IIT Madras, India, (2001), p.60, Combustion synthesis of nanoparticle nickel ferrite associated with in situ γ -Fe₂O₃ formation, (with S.S. Naik).
- A. V. Salker, Inorganic Materials for the New Millennium (IMNM), IIT Madras, India, (2001), Synthesis, characterization and catalytic studies over rare earth perovskites, (with T. Vaz).
- B. R. Srinivasan, Modern Trends in Inorganic Chemistry (MTIC-IX) Symposium, IACS, Calcuta, India, (2001), p.83, Synthesis, Spectroscopic Characterization and Reactivity Studies of Ethylenediammonium Tetrathiotungstate, (with S.C. Sawant and B.K. Vernekar).
- K. S. Rane, National Conference and Symposium on Solid State Chemistry and allied Areas, IIP Kanpur, India, (2001) Structural Aspects of γ -Fe₂O₃: Humidity Sensitivity.
- V. M. S. Verenkar, National Conference on Materials for the New Millennium (MATCON), Kochi, India, (2001), p.82, Synthesis and Characterization of an oxide electrode material, (with G.M. Sail).
- A. V. Salker, National Conference on Materials for the New Millennium (MATCON), Kochi, India, (2001), p.115, Synthesis and Characterization of Rare Earth Perovskites, (with T.I.M. Vaz).

- 2.3.6. Publications: (a) Research Articles: (Name of the Teacher, Title of Journal, Volume, Month/1 (Research Publication in Journal).
- S. P. Kamat, A convenient one pot synthesis of 4-methyl-3-phenyl-3-aryl and 3-aryl-4-phenyl coumari *Chem. Research (S)*, (2002), 242-246, (with D'Souza A.H., Paknikar S.K. and Beauchamp P.S.). S.
- P. Kamat, Sodium metaperiodate oxidation of isocarvacrol (4-isopropyl-2-methyl phenol), *J. Chem. Res. (S)*, (2002), in press, (with D'Souza A.H. and Paknikar S.K.).
- S. P. Kamat, Biogenetic-type synthesis of cymbodiacatal a constituent of cymbopogan martini, *Phytochen* (2002), Communicated, (with D'Souza A.H., Paknikar S.K., Vasu Dev and Beauchamp P.S.).
- V. P. Kamat, Total Synthesis of bisabolane sesquiterpenoids, a-bisabol- I -one, curcumene, curcupheno elvirol: utility of catalytic enamine reaction in cyclohexenone synthesis, *J. Chem. Soc., Perkin 7 I*, (2002), 895-900, (with Hagiwara H., Okabe T., Ono H., Hoshi T., Suzuki T. and Ando M.).
- S. G. Tilve, A convenient synthesis of γ -substituted α -(alkylmethylene)- γ -butyrolactones, *Syni Communication*, (2002), Communicated, (with Shet J. and Nadkarni V.S.).
- B. R. Srinivasan, Reaction of model sulphite oxidase with dimethylsulphite, *Indian J. Chem.*, 41A, (2002), 140, (with Chaudhury P.K., Nagarajan K. and Sarkar S.).
- B. R. Srinivasan, Synthesis, characterization and thermal studies of Mg(II) complexes of ortho and aminobenzoic acids, *Indian J. Chem.*, 41A, (2002), 290-296, (with S.C. Sawant).
- S. P. Kamat, Synthesis of olivacene, a constituent of Archilejeunea olivacea, *Indian J. Chem. B*, (200: press, (with D'Souza A.H. and Paknikar S.K.).
- V. P. Kamat, Limnazine, the first Bacterial Azine Derivative from Bacillus sp, GW90a, *J. Natural Pro(* (2002), in press.
- R. N. Shirsat, UVA Light-Induced DNA Cleavage by Isomeric Methylbenz[a]anthracenes, *Chem. Res. Tax* 15(3), (2002), 400-407, (with Dong S., Fu P.P., Hwang H., Leszczynski J. and Yu H.).
- B. R. Srinivasan, Synthesis and X-ray Structure Characterization of Ethylenediammonium Tetrathiomolyt *Indian J. Chem.*, 40A, (2001), 563-567, (with B. K. Vernekar and K. Nagarajan).
- B. R. Srinivasan, Oxoanionic or sulfur lone pair attack? The difference in reactivity of hydrogensulfite ; and neutral dimethylsulfite towards $[\text{Bu}_4\text{N}]_2[\text{MoO}_2(\text{S}_2\text{C}_2(\text{CN})_2)_2]$ in the model reductive half rea of sulfite oxidasc, *J. Chem. Soc. Chem. Commun.*, 1786, (2001), (with K. Nagarajan, P.K. Chau(and S. Sarkar).
- V. P. Kamat & J.K. Kirtany, A short and Facile Synthesis of Lactarochromal and corresponding acid, *J. C Res.(S)*, (2001), 41, (with R. N. Asolkar).
- V. P. Kamat & J.K. Kirtany, Synthesis of Maritimmin, a chromone from *Pancratium maritimum*, *J. C Res.(S)*, (2001), 549-550, (with R. N. Asolkar).
- V. P. Kamat, Catalytic Enamine reaction: An expedient 1,4-Conjugate Addition of Naked Aldehydi Vinylketones and its Applications to the synthesis of Cyclohexenone from *Setvia Purp Tetrahedron Letters*, 42, (2001), 2705-2707, (with H. Hagiwara, T. Okabe, K. Hakoda, T. Hosh Ono, T.Suzuki and M. Ando).
- V. M. S. Verenkar, Synthesis and characterization of Nickel Manganite from different carboxylate precu for thermistor sensors, *Analog Applications Journal*, Feb., (2001), 52-56, (with R.K. Kamat and Naik).
- K. S. Rane & V.M.S. Verenkar, Ferrite grade iron oxides from ore rejects, *Bull. Mater. ScL*, 24, (2001), 338, (with P.Y. Sawant).
- K. S. Rane & V.M.S. Verenkar Dielectric behaviour of MgFe₂O₄, prepared from chemically beneficiated ore rejects, *Bull. Mater. Sci.*, 24, (2001), 323-330, (with P.Y. Sawant).
- K. S. Rane & V. M. S. Verenkar Synthesis of ferrite grade γ - Fe₂O₃Bul I., *Bull. Mater. Sci.*, 24, (2001), 39-4
- A. V. Salker, Mechanistic approach to NO-CO reactions over some rare earth perovskites, *Indian J. Cher* 40, (2001), 863.

2.3.8 Ph. D. degree conferred during the year: (Name of Candidate, Subject, Title of Thesis).

Tushar Shamba Anvekar, Chemistry, Preparation and Characterization of some Transition Metal Oxides.
Joazinho P. P. Pacheco, Chemistry, Stability Studies on Metal Nitrilotriacetate Complexes.

2.3.9 Any other information:

In additions to the research carried out at Goa University campus the faculty members visited countries Germany, USA, Japan etc. During 2001 - 2002 S.G. Tilve and A.V.Salkar visited USA and Gem respectively for their research work.

Department of Chemistry has conducted a refresher course in Organic Chemistry during February 2002.

DEPARTMENT OF COMPUTER SCIENCES AND TECHNOLOGY

2.3.1 List of the Teaching Staff: (Name, Qualifications, *Designation*). P. R. Rao, Ph. D., *Reader & Head*

V. V. Kamat, Ph. D., *Reader*

Yma Pinto, MCA, *Sr. Lecturer*

Jyoti Pawar, MCA, *Sr. Lecturer* (on duty leave)

Ramdas Karmali, MCA, *Lecturer*

S. Baskar, M. Sc., *Lecturer*

Ramrao Wagh, MCA, *Sr. Lecturer*

2.3.2 Highlights of the Research Activities:

The Department has expertise in the areas of Data Mining, Data Warehousing, Graph Theory, Theoretical Computer Science, Graphics and Visualization, Web Tools, Networking, Databases, Neural Network & Software Engineering.

2.3.3 List of Visiting Scholars: (Name of the Scholar, Institutional affiliation, Title of Lecture delivered, Date).

Supriya Pal, NCST, Bangalore, Component Based Software Development, 26th - 28th November 2001.

Raman, NCST, Bangalore, Introduction to XML, 4th - 6th December 2001.

Pushpak Bhattacharya, IIT, Mumbai, Soft Computing,
7th 8th December 2001.

Sasikumar, NCST, Mumbai, E-learning, 10th - 11th December 2001.

Michelle More, University of Texas, Application of Genetic Algorithms, 8th January 2002.

2.3.5 Seminars/Conferences/Workshops etc.

(a) Organised: (Title/Theme, Dates, Funding agencies.)

Component Based Software Development, 26th - 28th November 2001.

Introduction to XML, 4th - 6th December 2001.

Soft Computing, / 8th December 2001.

E-learning, 10th - 11th December 2001.

Infofest, 29th - 31st January 2002.

(b)(i) Attended: Seminars/Conferences: (Teacher, Organising Institute, Place, Title of Paper).

P. R. Rao, The school of technology of Setubal, Portugal, 7th - 10th July 2001, An Algorithm for Determining Subspaces containing Clusters with Multiple Minimum Density Thresholds for Numerical Data.

V. V. Kamat, CDAC, Hyderabad, August 2001, "Automatic Generation of Question for online evaluation".

(b)(ii) Attended: Workshops: (Name of the Teacher, Theme of Workshop, Place, Dates).

P. R. Rao, (i) Mobile computing system and formal methods, Hyderabad, 15th - 19th December 2001. (ii)

Information Technology Enabled Services, Goa, 27th - 28th July 2001.

R. Wagh, Formal Software Engineering, Pune, 3rd - 10th January 2002.

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

P. R. Rao, An Algorithm for determining subspaces containing clusters with multiple minimum density thresholds for numerical data, poster presentation in the Third International Conference on Enterprise Information system, Setubal, Portugal, 7th - 10th July 2001.

Jyoti D. Pawar & P.R. Rao, (i) "A Multi-level subspace clustering Algorithms for mixed data types with multiple threshold values", accepted for presentation at 2nd UMASS Bioinformatics conference, Lowell May 2002. (ii) "A subspace clustering Algorithm for finding clusters in large databases using sampling" submitted to KBCS International Conference, Mumbai.

V. V. Kamat, "Automatic generation of questions for online evaluation", Proceedings of National Seminar on e-learning and e-learning technologies, Hyderabad, 59-62, 2001.

2.3.7. Sponsored Consultancy work undertaken: (Name of the Teacher, Nature of Consultancy, Name of the Sponsor, Duration of consultancy, Amount).

V. V. Kamat, Educational Quality, ITEC, 52 days, 1.00 lakh.

DEPARTMENT OF EARTH SCIENCE

2.3.2 List of the Teaching Staff: (Name, Qualifications, *Designation*).

A. G. Dessai, Ph. D., *Professor & Head*

P. S. Raikar, Ph. D., *Reader*

K. Mahender, Ph. D., *Reader*

T. A. Vishwanath, Ph. D., *Sr. Lecturer*

A. G. Chachadi, Ph. D., *Sr. Lecturer*

A. A. A. Viegas, Ph. D., *Lecturer*

2.3.3 Highlights of the Research Activities:

The department is actively engaged in research in the following fields:

- I. Study of lower crustal and mantle nodules in Daccan basalts with a view to understand the complex lithological variation and P-T regimes of the deep crust beneath western India.
- II. Statistical modeling and evaluation of mining property from the North Goa.
- III. Sedimentologic, stratigraphy and paleogeographic reconstruction of carbonate sequences of Western India. Application of RS-GIS integrated approach in Mining and Environment Geology.
- IV. Ground water model studies involving sea water intrusions in the coastal aquifers and mining impacted ground water environment. Investigations on rural drinking water supplies, resource augmentation, conservation and artificial recharge. Overall ground water study and its impacts on the sustenance of the coastal zones of India.

2.3.4 Sponsored Research Projects sanctioned during the year: (Name of the Investigator/s, Topic, D Sanction, Funding agency, Amount).

A. G. Dessai, P. S. Raikar, K. Mahender, A. G. Chachadi, T. A. Vishwanath, A. A. A. Viegas, For Projects involving Petrology, Geochemistry, Sedimentology and Ground water geology, March 2001, U. G. C., Rs. 31.75 Lakhs.

2.3.5 Seminars/Conferences/Workshops etc.

(b)(i) Attended: Seminars/Conferences: (Teacher, Theme of conference, Place, Date, Title of paper)

K. Mahender, (i) International Seminar on seismic hazards with special reference to Bhuj earth quake, Delhi, 3rd - 5th October 2001, Tectonics and geological evolution of Kutch, Gujrat. (ii) IGCP-UNI workshop on geoscience education for nat. res. Management, Chandigarh, 17th - 18th December 2001, A new course in geoscience.

A. G. Chachadi, ICAR, Old Goa, Goa, 6th - 7th April 2002, Impact of irrigated agriculture on ground water regime in East Godavari Coastal Delta of A. P.

2.3.8 (b) Ph. D. degree conferred during the year: (Name of Candidate, Subject, Title of Thesis).

Rajeevan Moothal, Earth Science, Stratigraphic Sedimentology, Microfacies and Diagenesis of Middle Jurassic Succession of Kutch, Gujrat, Western India.

2.3.9 Any other information:

The Department was identified for UGC assistance at the level of Departmental Research Support (DRS) for five years under the Special Assistance Programme (SAP) 1st Phase.

DEPARTMENT OF MATHEMATICS

2.3.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

Y.S. Prahlad, Ph. D., Professor

A. J. Jayanthan, Ph. D., *Reader & Head*

Y. S. Valaulikar, M. Phil., *Sr. Lecturer*

A. N. Mohapatra, Ph. D., *Lecturer*

R. K. Panda, Ph. D., *Lecturer*

M. Tamba, Ph. D., *Lecturer*

2.3.2 Highlights of the Research Activities:

R. Panda studying the existence of solution of semilinear elliptic equation with sign-changing nonlinearity.

A. Mohapatra studying (i) Inverse spectral problem for **I** dim. Schrodinger operators (ii) Smoothness of shift functions.

A. J. Jayanthan studying the structure of knots embedded in a Heegaard surface of genus two by surgery on surface into two unknotted torii.

2.3.5 Seminars/Conferences/Workshops etc.

(a) Organised: (Title/Theme, Dates, Funding Agencies.)

Teachers meeting to discuss the newly proposed U. G. C. Curriculum, April 2002, Goa University.

(b)(i) Attended: Seminars/Conferences: (Teacher, Theme of Workshop, Place, Dates, Title of the Paper).

A. J. Jayanthan, MTTs Programme at IIT, Guwahati, 2nd - 28th June 2002, Rear Analysis

R. K. Panda, KITS Programme 2002 at IIT, Mumbai, 20th May - 4th June 2002, Linear Algebra.

(b)(ii) Attended: Workshops: (Teacher, Theme of Conference, Place, Date).

R. K. Panda, Workshop on NET/SET Examination organized by CCGEL CELL, Goa University, 8th December 2001.

2.3.10 Any other information:

(a) Fellowship/Visiting Professorships etc., :

A. Jayanthan visited University of Hyderabad (Mathematics Department), 29th April - 31st May 2002.

A. Mohapatra visited University of Kentucky, (Mathematics Department), U. S. A. from 25th January March 2002 under DST-NSF Collaboration programme.

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DEPARTMENT OF PHYSICS — (DST-FIST SPONSORED DEPT)

2.3.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

P. R. Sarode, Ph.D., *Professor and Head*

A. B. Bhattacharyya, Ph. D., *Professor*

J. A. E. Dem, Ph.D., *Reader*

G. M. Naik, Ph.D., *Reader*

G. R. Bhat, Ph.D., *Reader*

Uma Subramanian, Ph.D., *Lecturer*

R. B. Tangsali, Ph.D., *Lecturer*

R. V. Pai, Ph.D., *Lecturer*

R. K. Ka mat, M.Phil., *Lecturer*

K. R. Priolkar, Ph.D., *Lecturer*

2.3.2 Highlights of the Research Activities:

The one-dimensional extended Bose-Hubbard model using finite size density matrix renormalization group has been studied. A complete phase diagram for density $\rho = 1$ has been obtained. This diagram consists of three phases, superfluid, and Mott insulator and mass density wave. These calculations demonstrate two continuous phase transitions from Mott insulator to superfluid and to mass density wave phase for anharmonic values of onsite interaction U and nearest neighbour interaction V . For higher values of U and V , the continuous transitions are replaced by a direct first order transition from Mott insulator to mass density wave.

Under the International Collaborative Research Programme of Department of Science and Technology, Govt., India, New Delhi with Japan Synchrotron Radiation Research Institute, Hyogo EXAFS investigations on industrially important automobile catalysts, Pt / CeO₂ have been carried out at Spring-8 Synchrotron Radiation Facility, Japan. X-ray Pt L₁₁₁ -edge EXAFS spectra have been recorded at room temperature with a Si (111) double-crystal spectrometer at BLO1B1 beamline and analysed in 1%, 2% and 4% Pt / CeO₂ catalysts. EXAFS analysis conclusively showed that Pt²⁺ ion substitutes the Ce⁴⁺ ion in the surface layers, CeO₂ substrate resulting in Pt²⁺-O-Ce⁴⁺ type linkages and formation of Ce_{1-x}Pt_xO_{2.8} type solid solution. The high catalytic activity of these samples has been attributed to Pt²⁺-O-Ce⁴⁺ interaction. Scientists from Indian Institute of Science, Bangalore, Institute of Scientific and Industrial Research, Osaka University, Japan and Surface Science Laboratory, Okayama University, Okayama, Japan participated in this work.

X-ray Photoelectron Spectroscopic Studies on MnSeI_xTe_{1-x} ($x = 0, 0.3, 0.4, 0.5, 0.7$ and 1) have been carried out at Indian Institute of Science, Bangalore. In particular, XPS spectra, Mn 2p level have been recorded on an ESCA Mark II spectrometer, VG Scientific Ltd, England. The spectra show, in addition to the spin-orbit splitting, the Mn 2p level, well-defined satellite structure on the higher energy side of the main peak. Detailed analysis of these spectra indicates that the Mn (3d)-Chalcogen(p) hybridization and the charge transfer energy decreases with increasing Te content. This explains the decrease in the energy band gap in these magnetic semiconductors with increasing Te content.

A package for the Monte Carlo calculations of neutron interactions (MCNP) with shielding materials has been used for a few standard problems. These are to be extended to deal with the particular design of a shielding tunnel being used for a neutron beam line serving three neutron spectrometers of the I.U.C.-D., at Dhruva Reactor, BARC. The results of the earlier code that was written for an elementary representation of the tunnel assembly may also be checked through use, this code.

In continuation of the earlier effort of including rare-earth oxides in a phosphate glass host, additional three oxides viz. Dysprosium, Gadolinium and Samarium have been successfully prepared in 10% the percentage, rare-earth oxide is about 15 mole %. The samples were characterized using Infrared and UV-Visible spectroscopy. The presence of the basic PO_4 tetrahedron was confirmed in the IR spectra. The absorption edge was as expected from the other members of the series and the visible spectra of the Samarium and Dysprosium containing glasses showed well defined absorption peaks in the 340 - 540 nm region. However the Gadolinium sample exhibited a marked absence of any absorption peaks in the entire visible range. A detailed interpretation of the different optical behaviour of neighbouring members of the lanthanide series requires further investigation.

Permeability of ferrites is of paramount importance in technology. This is influenced by the microstructure of the material. Work leading to standardization of a novel precursor method of synthesis of nanocrystalline Mn_xZn_{1-x} Ferrite and investigation of microstructure, long/short range ordering is presently undertaken.

Study of Ferroelectric phase transitions in nano size ferroelectric ceramics and their use as sensors materials is also being pursued.

Predictive delay analysis has been performed for a representative CMOS inverter with submicron device size using PREDICTMOS MOSFET model as against SPICE which adopts a time consuming numerical approach and relies more on empirical fitting of parameters for short channel devices. The model is relatively simple and can be related to process and layout data with potential of estimation of the performance of a scaled design. The submicron CMOS inverter delay estimation under various loading and operating conditions have been compared against two benchmarks (a) computer aided simulation with SPICE level 1; (b) the analytical results of the alpha power law based model. It is concluded that the PREDICTMOS model is potentially promising as a predictive analytic tool for submicron level design with transparency of device circuit physics and in acceptable level of accuracy.

Applications of two MOSFET models, namely PREDICTMOS and ACM have been studied in order to demonstrate their application specific utility. The PREDICTMOS model has been used to estimate the effective parasitic source / drain resistance in CMOS inverter propagation delay while ACM model has been used to obtain the second order effects in MOSFET small signal parameters.

2.3.3 List of Visiting Scholars: (Name of the scholar, Institutional Affiliation, Title of Lecture and Date).

S. K. Mendiratta, Department of Physics, University of Aveiro, Aveiro, Portugal, Research at University of Aveiro, January 4th - June 2002.

A. W. Joshi, Department of Physics University of Pune, Innovative Low Cost Physics Experiments, September 2001.

2.3.4 Sponsored Research Projects sanctioned during the year: (Name of the Investigator, Topic, Date of Sanction, Funding Agency, Amount).

Special Assistance Programme, UGC, Thrust Area: Structural Properties of Materials: Materials Science: Level, UGC, New Delhi, 18th March 2001, Rs. 30,00,000/-.

P. R. Sarode, R. B. Prabhu, K. R. Priolkar, Neutron Diffraction and Scattering Studies of Antiferromagnetic $MnTe_1Se_{1-x}$, April 2002, Inter University Consortium for DAE Facilities, Indore, Rs. 83,000/-.

2.3.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agencies).

Indian Academy of Sciences Refresher Course in Experimental Physics, 29th October - 12th November, 2001
Indian Academy of Sciences, Bangalore.

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

- A. B. Bhattacharyya, International Conference on VLSI Design organized by VLSI Society of India, Ministry of Information Technology, Govt. of India in Cooperation with IEEE Circuits and Systems Society, ACM SIGDA (USA), Bangalore, 7th - 11th January 2002, PREDICTMOS MOSFET Model and its Applications to Submicron CMOS Inverter Delay Analysis.
- A. B. Bhattacharyya, Chandigarh Symposium on Microelectronics (CSME)-2002 Organized by Indian Microelectronics Society at Panjab University, Chandigarh, 15th - 16th February 2002, MOSFET Model Option for VLSI Design.
- K. R. Priolkar, DAE Solid State Physics Symposium held at BARC, Mumbai, 26th - 30th December 2001. (i) Neutron Diffraction Study of Antiferromagnetic MnTe. (ii) Magnetoresistance study of CeSi₂, Ga, (iii) Effect of Te doping in MnSe: Resistivity Study.
- R. V. Pal, National Conference on the Condensed Matter Days held at Sambalpur University, Sambalpur Department of Physics, Sambalpur, Orissa, 29th - 31st August 2001, Tricritical points in ID Bose Hubbard Model.
- R. V. Pai, A Condensed Matter Conference at the Jawaharlal Nehru Centre for Advanced Scientific Research Bangalore, 2nd - 4th January 2002, ID Bose Hubbard Model at the India and Abroad.
- R. B. Tangsali, University of Delhi, Delhi, 15th - 19th December 2001, Use of Technology for Establishing uniformity in Teaching and Learning of Mathematics and Sciences among the Rural and Urban Students.
- G. M. Naik & R. K. Kamat, IEEE Bombay Section and Institute of Engineers, Pune and Department of Electronics Science, Pune, 4th - 6th March 2002. (i) Development and Optimization, Nickel-Manganese Oxide thermistors using Oxalic Precursors. (ii) Thermal Analysis, Nickel Manganese Carboxylate Precursors for Thermistor Applications. (iii) Novel Manufacturing setup Improves Thermistor Specifications.
- R. B. Tangsali, J. S. Budkuley & G. K. Naik, Solid State Spectroscopy, Sri Venkateswara University, Tirupati Nitrotriacetate precursor for synthesis of nano particle Mn-Zn ferrites.
- R. B. Tangsali, S. H. Keluskar, G. V. S. Kundaikar, P. D. Khedekar & J. S. Budkuley, Solid State Spectroscopy Sri Venkateswara University, Tirupati, Preparation and Characterization of nano particle ferrites from Sulphite Hydrazinate based precursors.
- R. B. Tangsali, S. Desai, P. Mashelkar, S. Bandekar & A. V. Salkar, Solid State Spectroscopy, Sri Venkateswara University, Tirupati, Preparation and Electrical Characterization of Lead Titanate.

(b) (ii) Attended: Workshops: (Name of the Teacher, Theme of Workshop, Place, Dates).

- P. R. Sarode, (i) SSCU Silver Jubilee International Conference on Solid State Materials, Solid State and Structural Chemistry Unit, Indian Institute of Science Bangalore, 4th - 7th December 2001. (ii) State Conference on Strategic Directions for Technical Education in Goa, Goa Engineering College Farmagudi, Goa, 23rd - 24th November 2001.
- A. B. Bhattacharyya, State Conference on Strategic Directions for Technical Education in Goa, Goa Engineering College, Farmagudi, Goa, 23rd - 24th November 2001.
- R. B. Tangsali, School on Cryogenics, Nuclear Science Centre, Delhi, 4th - 9th February 2002.

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

- J. F. Leon, P. Chazette, F. Dulac, J. Pelon, C. Flamant, M. Bonazzola, G. Foret, S. C. Alfaro, H. Cachier, S. Cautenet, E. Hamonou, A. Gaudichet, L. Comes, J. L. Rajot, F. Lavenu, S. R. Inamdar, P. R. Sarode and J. S. Kadadevarmath, Large Scale Advection of Continental Aerosols during INDOEX, J Geophysical Research (USA), 106, 28427-28440, 2001
- K. R. Priolkar, Parthasarathi Bera, P. R. Sarode, M. S. Hegde, S. Emura R. Kumashiro and N. P. Lalla, Formation of Ce_{1-x}Pd_{0.2x} Solid Solution in Combustion-Synthesized Pd / CeO₁ Catalyst : XRD, XPS and EXAFS Investigation, Chemistry of Materials (USA), 14 2120 - 2128, 2002.
- T. S. Anvekar, K. R. Priolkar, V. G. Sathe, A. P. Pimpale, P. R. Sarode and V. N. Kamat Dalai, EXAFS Study of S Doped Y_{0.4}Pr_{0.6}Ba₂Cu₃O_{7.8}, Indian J. Pure & Appl. Physics, 40, 272 - 276, 2002.
- K. R. Priolkar, Parthasarathi Bera, P. R. Sarode, M. S. Hegde, S. Emura R. Kumashiro and N. P. Lalla, Structure Investigation of Combustion-Synthesized Cu / CeO₂ Catalysts By EXAFS and Other Physics Techniques: Formation of a Ce_{1-x}Cu_xO₂ - Solid Solution, Chemistry of Materials (USA), 14, 3591 - 3601, 2002.

(c) Popular Articles:

G. R. Bhat (i) What is a Language? (How to use multiple languages, yet speak in one voice), Developer 2.0 12th - 13th September 2001. (ii) Walking the Middle Road to Web Middleware (CGI, Fast mod_perl, mod_php, ASP and more like that), Developer 2.0, p.p. 12th - 13th August 2001. (ii) Elephant Never Forgets (Why PostgreSQL is the most promising Database back-end) Developer p.p. 12 July 2001.

2.3.7 Sponsored Consultancy work undertaken: (Name of the Teacher, Nature of Consultancy, Name Sponsorer, Duration of Consultancy, Amount).

A. B. Bhattacharyya, Pacemaker: ASIC Design, Semiconductor Complex Ltd. Govt. of India, 2000 - 200; 78,000/- (ongoing).

2.3.9 Any other information:

(b) Fellowship/Nisitng Professorships etc., :

J. A. E. Desa, Visiting Associate Professor, Department of Physics, University of Aveiro, Aveiro, Portuga June - 31st August 2001).

Department of Physics has been identified by UGC for financial support under its Special Assis Programme at DRS level for the period April 2002 - March 2007. The Department has been sancti a grant of Rs. 30 lakhs.

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE: (*Service Department*)

2.3.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

Gaurish Naik, Ph. D., *Reader ct Head*

Rajendra Gad, M. Sc., *Technical Officer*

2.3.2 Highlights of the Research Activities:

University Science and Instrumentation Centre is basically a service and Maintenance centre. The centre ht three workshops for Mechanical, Glass Blowing and Electronic works. All the three workshops are equi with adequate instruments for handling various needs of the University. The workshops are maintaine trained staff in respective trade. Apart from service and maintenance, the centre contributes in the develop of basic infrastructure of the University such as Campus Telephone, Internet etc. The centre also orgal Seminars and Workshops in the areas of Instrumentation, Computer Maintenance etc.

2.3.5 Seminars/Conferences/Workshops, etc.

(b)(i) Attended: Seminars/Conferences: (Teacher, Theme of Conference, Place, Date, Title of Pape Gaurish Naik, Pune University, Pune, 4th - 6th March 2002, NTC Thermistors.

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

Rajanish Kamat and Gaurish Naik (i) Thermistors: In Search of New Applications, manufacturers cult advanced NTC techniques, Sensor Review, November 2002. (ii) NTC Thermister Characteriz Journal, Instrumentation, in press, 2002.

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 &

BIOTECHNOLOGY: (M. Sc., Ph. D.)

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

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

The faculty also offers M. Phil in Environmental Scie

FACULTY BOARD

Dean of Faculty, *Chairman*

U. M. X. Sangodkar, *Member*

S. Mavinkurve, *Member*

P. V. Desai, *Member*

P. K. Sharma, *Member*

H. B. Menon, *Member*

S. C. Ghadi, *Member*

S. K. Shyama, *Member*

S. N. Bhosle, *Member*

DEPARTMENT OF BOTANY — (DST-FIST SPONSORED DEPT)

2.4.1 List of the Teaching Staff: (Name, Qualifications, Designation).

D. J. Bhat, Ph.D. *Professor & Head*
P. K. Sharma, Ph.D., *Reader*
M. K. Janarthanam, Ph.D., *Reader*
V. Kerkar, Ph.D., *Sr. Lecturer*

B. F. Rodrigues, Ph.D., *Reader*
S. Krishnan, Ph.D., *Lecturer*
Nandkumar Kamat, Res. Scientist

2.4.2 Highlights of the Research Activities:

The Department conducts researches on biodiversity studies and bioprospecting of algae, fungi, ferns and higher plants; photosynthesis, stress tolerance and crop productivity; reclamation and revegetation of mining areas using mycorrhizae; rice histochemistry; culture collection, maintenance and screening of fungi.

Based on the expertise and facilities available, the faculty members of the Department have focused on following research activities:

Taxonomy, biodiversity, culture collection and screening, microfungi of the forests of Western Ghats, southern India.

Effect of light on photosynthesis, stress tolerance and crop productivity.

Taxonomy and biodiversity of flowering plants, Western Ghats, Goa.

Documentation of medicinal plants; biodiversity of mycorrhizae and revegetation of denuded wastelands.

Taxonomy and biodiversity of algae and ferns of Goa.

Culture collection, maintenance and screening of fungi.

Histochemistry of rice and other crop seeds aimed at finding out locality of these compounds.

2.4.4 Sponsored Research Projects sanctioned during the year: (Name of the Investigators, Topic, Date of Sanction, Funding Agency, Amount).

P. K. Sharma, Role of xanthophyll cycle (V+A+Z) & its in protection against photo damage in rice seedling, July 2001, DST, New Delhi, Rs. 24,50,266/-

B. F. Rodrigues, Survey of Medicinal plants of Western ghats of Goa and Gujarat, August 2001, Indian Council, Medical Research (ICMR) New Delhi, Rs. 7,55,046/-

D. J. Bhat, Fungus Culture Extracts, for screening of sec. metabolites, April 2001, C.S.I.R., New Delhi, Rs. 6,30,000/-

2.4.5 Seminars/Conferences/Workshops, etc.

(b) (i) Attended: Seminars/conferences: (Name of Teacher, Theme of Conference, Place, Dates, Title of Papers).

P. K. Sharma, Indian Science Congress, Lucknow, 1st to 7th January 2002, National seminar of role of plant physiology for sustaining quality & quantity of food production in relation to environment.

M. K. Janarthanam, (i) Botanical survey of Dehra Dun, 7th & 8th November 2001, Conservation of endemic India species: Habitat preferences vs distribution range. (ii) ATREE & Association of tropical Biology, Bangalore, July 15-18, 2001, International conference on tropical ecosystem Structure, Diversity & Human welfare.

D. J. Bhat, (i) Govt. Science College, Dombivili, Mumbai, 2nd - 7th February 2002, Hyphomycetes of Western Ghats. (ii) C.A.S. In Botany, University of Madras, Chennai, 23rd - 24th, March 2002, Litter fungi of the Western Ghats.

INTERNATIONAL WORKSHOP/SEMINAR ABROAD

S. Krishnan, International Rice research Institute (IRRI), Philippines, 20th - 24th May 2002, Genetic Engineering and Nutrition to Rice.

B. F. Rodrigues, Asian International Congress (AMIC) Plant Pest & Disease Research Institute of Tehran Karaj (Iran), 17th - 20th September 2001.

(b) (ii) : Attended Workshops: (Name of Teacher, Theme of workshop, Place, Dates).

Vijaya Kerkar, *Gracilaria* sp. From Indian shores, Chennai, 4th - 19th May 2001.

B. F. Rodrigues, Regional workshop on sustainable use of natural resources from the coastal areas and Western Ghats of Goa and Maharashtra, Shivaji University, Kolhapur & Goa University, Goa, 22nd - January, 2002.

2.4.6 Publications: (a) Research Articles: (Name, Title, Journal, Month/year).

- P. K. Sharma, Photoinhibition of photosynthesis and mechanism of protection against photodamage in plants, *Everymen's Science*, 35: 237-252, 2002.
- Rupali Bhandari & Prabhat Sharma, Uv-B radiation: Anatomical, physiological and biochemical changes in glasshouse - grown ornamental plants, *Plant Biology*, 28: 291-300, 2001.
- Vaishali C. Joshi, S. Rajkumar & M. K. Janarthanam, Distribution of *Oberonia brachyphylla* Blatt & Mc. (a rare endemic orchid of Western Ghats of India), *Bombay Nat. Hist. Soc.*, 98(i): 153-153, 2001.
- Vaishali C. Joshi, S. Rajkumar & M. K. Janarthanam, New record of the family Eriocaulaceae from Bombay Nat. Hist. Soc., 98(i): 155-156, 2001.
- Krishnan S., G. I. A. Ebenezer & P. Dayanandan, Histochemical Localisation of Storage component Caryopsis of Rice (*Oryza sativa* L.), *Current Science*, 80(4): 567-571, 2001.
- Nadaf A. B., S.R. Shukla & S. Krishnan, Some new observations in *Furcraea foetida*, *Journal of Economic Taxonomic Botany*, 25(2): 275-278, 2001.
- Nadaf, A. B. & S. Krishnan, Effect of cooking on Aleurone in the caryopsis of Indica Rice., *International Research Notes*, 26.2: 74-75, 2001.
- Nadaf, A. B. & S. Krishnan, Aleurone thickness and its relation to patterns of breakage of rice caryopsis during cooking, *International Rice Research Notes*, 27.1:23-24, 2002.
- B. F. Rodrigues and Varsh Jaiswal, Occurrence & distribution of arbuscular mycorrhizal fungi in coastal dune vegetation of Goa, *Current Science*, 80(7): 826-827, 2001.
- Rodrigues B. F., Revegetation of wastelands: An indirect approach to control *Parthenium hysterophorum* *Economic & Taxonomic Botany*, 25 (2): 264-266, 2001.
- Rodrigues B. F. & Varsha Jaiswal, Arbuscular mycorrhizal (AM) fungi from coastal sand dune vegetation of Goa, *Indian Journal, Forestry*, 24 (1): 18-20, 2001.
- D'Souza, M. A. and Bhat, D. J. (2001): A new species of *Trichobotrys* from the Western Ghat forests, *Indian Mycotaxon* 80, 105-108.
- D'Souza, M. A. and Bhat, D. J. (2002): *Didymobotryum spirillum*, a new synnematous hyphomycete from India. *Mycologia* 94 (3), 535-538.
- D'Souza, M. A., Singh, S. K., and Bhat, D. J. (2002): New conidial fungi from Andaman Islands, *Indian Mycotaxon* 82, 133-144.
- D'Souza, M. A. and Bhat, D. J. (2002): *Bharatheeya*, a new hyphomycete genus from India. *Mycotaxon* 397-403.
- D'Souza, M. A. and Bhat, D. J. (2001): Two new hyphomycetes, from India. In: *Microbes and Plants*, Aruna Sinha. Pp.1-6.
- D'Souza, M. A. and Bhat, D. J. (2002): D'Souza, M. A. and D.J. Bhat. 2002. *Kramasatnuha kamalensis* nov. from India. *Journal, Basic and Applied Mycology 1(1)*: 6-7. Keshavaprasad, T.S., Maria D'Si and D. J. Bhat. 2002. *Vermiculariopsiella* Bender : Present Status, Species Diversity. In : *Front Fungal Diversity in India (Prof Kamal Festschrift)*. (Eds. G.P. Rao, C. Manoharachari, D.J. I R.C. Rajak and T.N. Lakhanpal). International Book Distributing Co. Lucknow, India, pp. 503-511

2.4.8(b) Ph. D. conferred during the year: (Name of Candidate, Subject, Title of the Thesis).

- S. Rajkumar, Botany, Studies on systematics and biology of endemic tree genera of Western Ghats, India. Vaishali Chintamani Joshi, Taxonomic and Phytogeographical Investigation on endemic plants of Western Ghats with special reference to Goa.

2.4.9 Any other information:

a) Awards/Honours conferred.

- P. K. Sharma, Awarded Prof. Hiralal Chakravarty Award from Indian National Science Congress (2002).
D. J. Bhat, Selected General Secretary, Mycological Society of India (2002-2005).

b) Fellowship/Visiting Professorship etc.

- S. Krishnan: (i) BOYSCAST Fellowship received from the Department of Science and Technology (DST), Government of India, Delhi to carry out a specific research work on "Transgenic Rice" at the International Rice Research Institute (IRRI), Philippines from 14th February - 12th May 2002 (3 months). (ii) International

Research Institute (IRRI) Fellowship to carryout a specific research on "Histochemical Analysis of Transgenic Rice" at the International *Rice* Institute of Philippines from 13th May - 12th June 2002 (one month).

DEPARTMENT OF MARINE SCIENCES AND MARINE BIOTECHNOLOGY

2.41 List of the Teaching Staff: (Name, Qualifications, *Designation*).

MARINE SCIENCES

G.N. Nayak, Ph.D., *Professor & Head*
Aftab Can, Ph.D., *Lecturer*
S. Upadhyay, Ph.D., *Sr. Lecturer*
V. M. Matta, Ph.D., *Lecturer*
C. U. Rivonker, Ph.D., *Lecturer*
C. L. Rodrigues, Ph.D., *Reader*
H.B. Menon, Ph.D., *Reader*

MARINE BIOTECHNOLOGY

U. M. X. Sangodkar, Ph.D., *Professor*
U. Barros, Ph.D., *Sr. Lecturer*
U. Muraleedharan, Ph.D., *Sr. Lecturer*
S. C. Ghadi, Ph.D., *Sr. Lecturer*
Savita Kerkar, M.Sc., *Lecturer*

2.42 Highlights of the Research **Activities**:

Marine Sciences: Sediment flux and hydrodynamics in estuarine, coastal and lake environments; Impact of mining on estuaries; Satellite oceanography; Remote Sensing through Radiative transfer model; Circulation of water masses in Arabian sea; Biogeo-chemical cycling of environmental sensitive elements in the nearshore regions; Behaviour of aluminium and other trace metals in estuaries; Fisheries; aquaculture; Biodiversity and taxonomy of corals.

Marine Biotechnology: 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 of 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 of plant tissue culture; Screening of microbial cultures isolated from hypersaline environments for bioactive compounds.

2.43 List of Visiting Scholars; (Name of Scholar, Institutional Affiliation, Title of Lecture, Date).

Contributory Lecturer - Marine Biotechnology:

Baban Ingole, National Institute of Oceanography, Dona Paula, Goa, Paper XIII: Sea Ranching, First term, 2001-2002.

V. K. Dhargalkar, National Institute of Oceanography, Dona Paula, Goa, Paper XIII: Sea Ranching, First term, 2001-2002.

Z. A. Ansari, National Institute of Oceanography, Dona Paula, Goa, Paper XIII: Sea Ranching, First term, 2001-2002.

Anil Chatterji, National Institute of Oceanography, Dona Paula, Goa, Paper XIII: Sea Ranching, First term, 2001-2002.

Lata Raghukumar, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem & Principles of Oceanography, Second term, 2001-2002.

S. Raghukumar, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem & Principles of Oceanography, Second term, 2001-2002.

C. T. Achuthankutty, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem & Principles of Oceanography, Second term, 2001-2002.

Ramaya, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem & Principles of Oceanography, Second term, 2001-2002.

P.M. Muraleedharan, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem & Principles of Oceanography, Second term, 2001-2002.

Baban Ingole, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem & Principles of Oceanography, Second term 2001-2002.

Z.A. Ansari, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem & Principles of Oceanography, Second term, 2001-2002.

P.V. Sathe, National Institute of Oceanography, Dona Paula, Goa, MBC III: Marine Ecosystem 8th Princip Oceanography, Second term, 2001-2002.

Contributory Lecturer - Marine Sciences:

P. V. Narvekar, National Institute of Oceanography, Dona Paula, Goa, MSC 02 Marine Chemistry, First 2001-2002.

M. Dileep Kumar, National Institute of Oceanography, Dona Paula, Goa, MSC 02 Marine Chemistry, term, 2001-2002.

S. N. De Souza, National Institute of Oceanography, Dona Paula, Goa, MSC 02 Marine Chemistry, First 2001-2002.

S. S. C. Sheno, National Institute of Oceanography, Dona Paula, Goa, Practical Marine Science, First 2001-2002.

V. Ramesh Babu, National Institute of Oceanography, Dona Paula, Goa, MSP 07 — Geophysical I Dynamics, First term, 2001-2002.

A. Paropkari, National Institute of Oceanography, Dona Paula, Goa, MSC 03 — Marine Geology, Second I 2001-2002.

Ramaswamy, National Institute of Oceanography, Dona Paula, Goa, MSC 03 — Marine Geology, Second I 2001-2002.

Nagendra Nath, National Institute of Oceanography, Dona Paula, Goa, MSC 03 — Marine Geology, Se^r term, 2001-2002.

2.4.5 Seminars/Conferences/Workshops, etc.

(b (i) Attended: Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Dates, ' of Papers).

Marine Biotechnology:

S. C. Ghadi, HT, New Delhi, New Delhi, **I** - 2nd March 2002, Characterisation and Application of Algino Bacteria associated with Sargassum.

Savita Kerkar, Marine Bioproducts Engineering Centre, 4th Asia Pacific Marine Biotechnology Confere University of Hawaii, Honolulu, 22nd - 26th April 2002, Poster — Metal tolerance in Hypersi Sulfate reducing Bacteria.

(b (ii) : Attended Workshops: (Name of the Teacher, Theme of Workshop, Place and Dates).

Marine Sciences:

H. B. Menon, International Conference on SeNAR-Sensors & Systems — ICONS 2002, NPOL KOCHI, I 13th December 2002.

Vishnu Murty Matta, Sustainable use of natural resources, Goa University, Goa, 22nd - 23^{1.4} January 2002.

Marine Biotechnology:

U. D. Muraleedharan, Training Programme on Remote Sensing applications to Ocean Studies, NIO, Goa, September - I **e** October 2001.

2.4.6 Publications: (a) Research Articles: (Name, Title, Journal, Volume, Month /year).

Marine Sciences:

Nayak G. N., Morphology of grainsize and mineralogy (Heavy) of the beaches between Polem and Honna West coast of India., Ind. Journ. Geomorphology,4(I & 2), PP 135-142, 1999.

S. S. Bukhari and G.N. Nayak, Seasonal variation of suspended matter and associated parameters in a trop estuary of Central West Coast of India, SDMCET Dharwad and IGCP - 367, Spl. Publ. Coastal Z Management, PP 57-58, 2000.

Aftab Can, Kinetic energy variability in Northern Indian Ocean (N10) using Numerical Model of Ma Geodesy, 25 PP. 175-186, 2002.

Marine Biotechnology:

Madhupratap M; M. Gauns; N. Ramaiah; S. Prasanna Kumar; P.M. Muraleedharan; S.N. de Souza; S. Said and U. Muraleedharan, Biogeochemistry Physical, Chemical & Primary Productivity characteristic the central & Western Bay of Bengal during Summer Monsoon 2001, Deep Sea Res. **II**, In press, 20

Savita Kerkar, Mercury *and* Lead tolerance in hypersaline sulfate reducing bacteria of Marine Pollution Bull (Pergamon), 2003.

- 2.4.8 (b) Ph.D. degree Conferred during the year: (Name of Candidate, Subject, Title of Thesis).
 Aftab A. Can, Marine Sciences, Development of Near Surface Flow Pattern and Water Mass Distribution in Arabian Sea in response to monsoonal forcings.
 Anjali Menezes Heredia, MS & MB, Some aspects of the nitrogen cycle in mangrove and estuarine waters.
 Mangesh Uttam Gauns, MS & MB, Role of microzooplankton in the food chain dynamics of some tropical marine environments.
 Maria Judith Barbara Dominica de Souza, MS & MB, Studies on particle-associated bacteria in tropical estuarine system.
 Narasinh Laxminarayan Thakur, MS & MB, Studies on some bioactivity aspects of selected marine organisms.

DEPARTMENT OF MICROBIOLOGY

24.1 List of the Teaching Staff: (Name, Qualifications, Designation).

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

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

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

S. N. Bhosle, Ph.D., Reader

I. Furtado, Ph.D., Reader

S. Nazareth, Ph.D., Sr. Lecturer

S. Garg, Ph.D., Lecturer

24.2 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.

- **Microbial Diversity (Archaeobacteria; Eubacteria; Cyanobacteria; Fungi; Actinomucetes) in Marine, estuarian (Mangrove; Salt pans; Coastal Paddies) and terrestrial (forest cover; Mine rejects) niches.**
- **Microbial interactions involving a) fish pathogenesis b) Biotransformation of organics. inorganics and organometals.**
- **Pollution Assessment (Marine and Terrestrial) and Control; Bioremediation (Saline Soils; Mine rejects); Biosorption and Biosedimentation by fungi; Cyanobacteria; Eubacteria and Arch= Development of genetically engineered devices "BIOSENSORS".**
- **Microbial Resources: a) Cyanobacterial Biofertilizer b) PHA's c) Fish sauce d) Aquaculture and shrimp farming e) Enzymes.**

2.4.4 Sponsored Research Projects sanctioned during the year: (Name of the Investigators, Topic, Date, Sanction, Funding Agency, Amount).

S. Mavinkurve & S. Bhosle, "Microbial studies on mangrove / marine bacterial flora, 30th March 2001, DOD Manpower Development, New Delhi, 5.19 lakhs.

S. Mavinkurve & S. Gar, Studies on marine microorganisms producing lipases and polyhydroxyalkanoates, 20. February 2002, DOD Manpower Development, New Delhi, 4.17 lakhs.

S. Nazareth, Isolation of an alkalophilic thermostable lipase and study of its application potential in detergents. 5th March 2002, GU/UGC, (Unassigned grant) 0.50 lakhs.

S. Nazareth, Fungal sedimentation, mine tailings, 25th March 2002, Goa DSTE, 2.0 lakhs.

J. D'Souza, Pollution of River of Baga. (2002) sponsored by Lions Club for field trips.

2.4.5 Seminars/Conferences/Workshops, etc.

(a): **Organized: (Title/Theme, Dates, Funding Agencies).**

Sustainable use of natural resources from the coastal areas and western ghats of Goa & Maharashtra, 22nd – 23rd January, 2002, Goa University with S. Bhosle as Co-ordinator, jointly organised by Goa University and Environmental Science Department, Shivaji University, Kolhapur and sponsored by Goa Department of Science and Technology

(b) (i) **Attended: Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Dates, Title of Papers).**

S. K. Dubey, Birla College on Frontiers of Biotechnology (UGC Sponsored seminar), Kalyan, Maharashtra, 28th - 29th April, 2001 delivered special lecture on "Construction of Genetically engineered mercury-ion biosensors".

- I. Furtado, National Symposium "Diversity of Microbial Resources and their Potential Application, Uni of N. Bengal, 4th — 6th March 2002, and delivered a special lecture on "Haloarchael Diver Marine Salt-pans — A Potential resources"
- S. Bhosle*, Sympcisiium on "Biotreatment of effluent from chemical industry", Jawaharlal Nehru Techno Institute (JNTU), Hyderabad, 7th - 10th December, 2001 and presented a paper on "Characterisa exopolymer produced by Sphingomonas sp. utilising TBTC" by U. Roy, S. K. Dubey and S. Bhc
- S. Nazareth, ICAR Research Complex for Goa, Old Goa, 6th - 7th April 2002 and presented paper on "Rec or recycled waste for production of mushroom and fertilizer".

(b) (ii) : Attended Workshops: (Name of Teacher, Theme of Workshop, Place and Dates).

- S. Bhosle, Workshop on "Environmental Benign industrial Biotechnology", Jawarhalal Nehru Techno Univeristy of Hyderabad, 6th December, 2001.
- S. Bhosle, Training in "Research Manangement" sponsored by Ministry of Environment and Forests, G India, under ageis of World Bank Capacity Building in Environment Management of Rel Conducted by Administrative Staff College of Hyderabad, 7th - 11th January, 2002.
- S. Nazareth, Sustainable use of natural resources from the coastal areas and western ghats of Gc Maharashtra, Goa University, 22nd - 23rd January, 2002.
- I. Furtado, Sustainable use of natural resources from the coastal areas and western ghats of Gc Maharashtra, Goa University, 22nd - 23rd January, 2002.

2.4.6 Publications: (a) Research Articles: (Name, Title, Journal , Month/Year).

- J. D'Souza. Modern Aquaculture : New recipe for disaster. A source book of Goa, its ecology and life Edited by C. Alvares. Pub. Other India Book store, 186-190, 2002.
- J.** D'Souza. Water Pollution. A source book of Goa, its ecology and life style. Edited by C. Alvam Other India Book store, 2002.
- T.** Rawte and S. Mavinkurve, Biodegradable / Plastics - Bacterial Polydroxyalkoates Ind. J. of Microb 41:233-245,2001.
- C. Parulekar, and Mavinkurve, S. Formation of ortho-benzoquinone from sodium benzoate by *Pseudo, mendacina* P₂d Lett. In applied Microbiology In Press, 2002.
- T. Rawte, and S. Mavinkurve, A rapid hypochloride method for extracting polyhydroyalkanoates from ba cells. Ind. J. of Experimental Biology, 40: 924-929, 2002.
- Rawte, T., Padte, M and Mavinkurve, S. Incidence of bacteria accumulating polyhydrocyalkanoates in ti west coast of India. World J. of Microbiology and Biotechnology. 18: 655-659, 2002.
- T. Rawte, and S. Mavinkurve, Characterisation of polyhydrocyalkanoates - Biodegradable plastics from bacteria. Current Science. 83:562-564. 2002.
- M.** Kowshik and **S.** Nazareth, Biosedimentation of mine tailings *by* Fusarium Solani. J. of Industrial Po Control, 7:341-346,2001.
- Y** Sardessai and S. Bhosle, Tolerance of bacteria to organic solvents - a mini review. Research in Microbi 153:263-268, 2002.
- Sardessai, Y. and Bhosle, S. Organic solvent - tolerant bacteria in Mangrove ecosystems. **C** Science.82(6), 2002.
- S. K. Dubey, D.S. Holmes, G.R. Rao and S. S. Gangolli. Detection and measurement of Ultratrace lei mercury and copper by genetically engineered microbial sensors. In : Recent Advani Environmental Sciences (Ed. Hiremath, K.G.) In Press , 2002.
- J.** Braganca and I. Furtado. Removal of cadmium from saline waters using a haloarchael cell pi Proceeding of First European Bioremediation Conference, Greece, 2002.
- S. Damare and I. Furtado. Sedimentation and clarification of industrial effluent by cyanobacteria from sa of Goa. Proceeding Biohorizon. 4th National symposium on Biochem Eng. And Biotech 14 2002.
- T. M. Raghavan and I. Furtado, An estuarine halophilic archaeobacterial strain metabolises biphenyl in International Conference on Fundamental Sciences : Chemical and Biological Sciences, Proce held at Singapore, 2001.

2.4.9 Any other information.

b) Fellowship/Visiting Professorship etc.

- a) J. D'Souza visited the University of Porto, Portugal (twice).

(c) Award of SRF (CSIR).

i) J. Braganca was awarded SRF Fellowship of CSIR under Dr. I. Furtado to pursue Ph.D. programme on a research project.

ii) T. Madhan Raghavan was awarded SRF fellowship of CSIR under Dr. I. Furtado to pursue Ph.D. programme and research project.

FIST proposal for the Department presented to UGC

S. K. Dubey was Ph.D. examiner and conducted viva-voce exam for Barkatullah University of Bhopal on two occasions. Title of the Ph.D. thesis were as follows:

(i) Modulation of N₂ fixation in *Rhizobium* sp. by TBTC.

(ii) Cloning of Yersinia "V" gene in *E. coli*.

DEPARTMENT OF ZOOLOGY

2.4.1 List of the Teaching Staff: (Name, Qualifications, Designation).

P. V. Desai, Ph. D., *Professor & Head*

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

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

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

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

2.4.2 Highlights of the Research Activities:

Cytogenetic studies of Congenital Malformation and Breast Cancer Mutagenicity, antimutagenicity and anticancer studies of Spices, Tissue culture, Electrophysiology, Neuro degeneration, Ecology, Membrane biochemistry & adaptation. Working on Biodiversity with special reference to Zooplankton of fresh water bodies/Antarctica.

2.4.5 Seminars/Conferences/Workshops, etc.

(a): Organized: (Title/Theme, Dates, Funding Agencies).

Comparative Animal Physiology for 21st Century, IS 15th December 2001.

I. K. Pai, (i) Environmental Orientation to school education 21st - 26th January 2002, C.P.R.E.E.C., Chennai

(ii) Workshop for Youth Training on Environment, 13th - 16th May 2002, WWF-UNDP.

(b) (i) Attended: Seminars/Conferences: (Name of Teacher, Theme of Conference, Place, Dates, Title of Papers).

A. B. Shanbhag, ANGR agricultural University of Hyderabad, 7th - 8th February 2002, (i) Variation in the population of mudflat birds on the deltaic islands in the Mandovi estuary of Goa (India). (ii) Dynamics of the avifaunal population in the central zone of the Taleigao Plateau, Goa (India).

I. K. Pai, National Seminar on Phytomacrol & Toxicol, Rewa, 19th - 21st October 2002, Zooplankton - bioindicator for toxicity studies.

2.4.6 Publications: (a) Research Articles: (Name, Title, Journal, Month/Year).

A. B. Shanbhag, R. Walla & S. D. Borges, The Impact of Konkan Railway Project on the Avifauna of Carambolim Lake in Goa, *Zoo's Print J.* 16(6), 503-508, 2001.

S. D. Borges & A. B. Shanbhag, Freshwater lakes in Goa buckling under the pressure of *Salvinia* weed menace. *Newsletter for Birdwatchers*, 41(6), 76-77, 2001.

S. D. Borges, M. Dessai & A. B. Shanbhag, Selection of nest platforms and the differential utility of nest building fibre by the Baya Weaver, *Ploceus Phillipinus*, *Tropical Zoology*, 15(1), 17 — 25, 2002

A. B. Shanbhag, S. D. Borges & R. Walla, Carambolim Lake, an ideal freshwater wetland of Goa, "Recent Advances in Environmental Science" K. G. Hiremath (Ed), Discovery Publishing House, New Delhi 231-263, 2002.

S. K. Shyama & N. Vaz, Proliferation by human leukocytes by autologous plasma — a novel technique, *Intl. Human Genetics*, 2, 91-93, 2002.

S. K. Shyama & N. Vaz, M. S. Sudher & P. D. Souza, Maternal Gestational Fever and Congenital Malformations, *Intl. J. Human Genetics*, 2, 87 — 89, 2002.

I. K. Pai, (i) Season specificity, insect communities on paddy in Goa, *Portzool*, 5 (4) 27 — 32, 2002. (ii) Butterfly distribution pattern in Goa, *Insect Environ*: 7 (4) 165— 167, 2002.

2.4.8 (b) Ph. D. degree conferred during the year: (Name of Candidate, Subject, Title of Thesis)
Kogga Naik, Zoology, Some studies on the biology of the nemipterids of Goa Coast.
Kulvir Sra, Zoology, Isolation, Characterisation, Culture and efficacy studies on the bacilli pathog
mosquitoes in Goa, India.
Renu Walla, Zoology, Limnological Studies on some fresh water bodies of Southern Tiswadi (Goa, India
special reference to water fawl.

2.4.9 Any other information:
b) Fellowship/Visiting Professorship etc.
I. K. Pai, Visiting Faculty to Shivaji University, Kolhapur.

2.5 FACULTY OF MANAGEMENT STUDIES AND FACULTY OF COMMERCE

2.6 General Information regarding faculty: (Departments and Degree).

DEPARTMENT OF MANAGEMENT STUDIES: DEPARTMENT OF COMMERCE: (M. Corn., M.F
(MBA, Ph.D.) M.Phil, Ph. D.)

FACULTY BOARD

Dean of Faculty, <i>Chairman</i>	Y. V. Reddy, <i>Member</i>
B. Ramesh, <i>Member</i>	Kshama Fernandes, <i>Member</i>
A. G. Balasubrananian, <i>Member</i>	Anjana Raju, <i>Member</i>
N. Mekoth, <i>Member</i>	

DEPARTMENT OF MANAGEMENT STUDIES

2.5.1 List of the Teaching Staff: (Name, Qualifications, *Designation*).

A. Sreekumar, Fellow of IIM, <i>Professor & Head</i>	Satishkumar, Ph. D., <i>Lecturer</i>
Kare Dilip D., Ph.D. (Texas), <i>Professor</i>	Dayanand M.S., MBA, <i>Lecturer</i>
Balasubramanian A.G., Fellow of HM, <i>Reader</i>	Fernandes Kshama, MMS, <i>Ledt</i>
Mekoth Nandkumar, Ph.D., <i>Reader</i>	

2.5.2 Highlights of the Research Activities:

The Department is actively concentrating to develop research activities through its contribution to the T Study Group. Three students are registered for Ph.D. in the area of Tourism Studies. Presently, seven can be registered formally for their Ph. D. out of which two candidates are full time research students.

2.5.3 List of Visiting Scholars: (Name of Scholar, Institutional Affiliation, Title of Lecture, Date).
No scholars visited during the Academic year. However some academicians and senior executives visii department and held sessions in the department.

Henrique Diz, Head, *Department of Economics, Industrial Engineering and Management, University of Portugal.*

Suhas Mallya, National Centre for Software Technology, Mumbai.

K. P. Fabian, Ex-Ambassador to Italy.

Umberto Sulpasso, Vice-Chancellor, Italian Multimedia University, Italy.

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

A. Sreekumar, Investigator for "CEO.study in Goa as part of the GLOBE Study on Leadership by Whartc School / JIM Indore".

2.5.5 Seminars/Conferences/Workshops, etc.

(a) Organized: (Title/Theme, Dates, Funding Agencies).

EMFI 2001, r¹ November 2001, funded by Alumni, and through Reg. Fees organised by th University Management Students Association.

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

A. G. Balasubramanian, i) Equability — An Inclusive Society for Persons with Disabilities, Chennai, 4th - 5th February 2002. ii) Conference on Creating Wealth in the New AFTA Economy, Sibul, Malaysia. 10th - 11th May 2002, "Changing Demographics in the World and Implications for HRD in the Developing Countries". Nandkumar Mekoth, Faculty Development Programme at Indian Institute of Management, Ahmedabad, 11 November - 28th February 2002.

Satishkumar, Visit to P. E. Technikon of Port Elizabeth, South Africa, 25th February - 1st March 2002.

A. Sreekumar, i) Conference on Faculty Development in Institutions of Management Education: A South Asian Perspective at IIM, Ahmedabad. Presented a paper on 'Faculty Development through Legislation'. ii) Conference on WTO and Higher Education organised by NIEPA at New Delhi.

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

A. Sreekumar, 'Mechanism for Quality Improvement', The Hindu, 12th February 2002. (Popular Article).

A. G. Balasubramanian, i) "To Play by Ground Rules" in Human Capital, Vol.5 (11), April 2002, pp 56-60.

ii) "Deficiproduct Lda. — Pedagogical Case and Teaching Note", European Case Clearing House; w w [w. ecch.cranfield.ac.uk](http://www.ecch.cranfield.ac.uk); Case No. 702-005-1 and 702-005-8. Registered in February 2002. iv) "Deficiproduct Lda. — A Prize Winning Company in Portugal", Success and Ability; Vol.6 (3); July-Sept 2001, pp 49-50.

2.5.8.1 (b) Ph. D. degree conferred during the year : (Name of Candidate, Subject, Title of Thesis)

Late Satish Ganapati Hegde, Management Studies, A Study of Complaints and Complaining Behaviour of Customers of Public Sector Commercial Banks in Goa.

2.5.9 Any other information:

(b) Fellowship/Nisitng Professorships etc.

a)Kshama Fernandes visited the University of Ingolstadt, Germany under the Foreign Exchange Programme during the period from May - August 2002.

b)Two MBA Part II students visited the University of Ingolstadt, Germany under the Foreign Exchange Programme during the period from March - July 2002.

c)Two students from University of Ingolstadt, Germany spent a semester in the Department attending the courses.

d)Two students from University of Aveiro, Portugal spent three months with the Tourism Studies Group, Goa University on project related to Tourism in Goa.

e)A.G. Balasubramanian spent part of the year at the University of Aveiro, Portugal as a Visiting Faculty.

OM.S. Dayanand spent part of the year at University of Aveiro as a Research Scholar.

g)A. Sreekumar spent a month at Indian Institute of Management, Kozikode as Visiting Faculty.

DEPARTMENT OF COMMERCE

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

B. Ramesh, Ph.D., *Professor and Head*

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

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

Anjana Raju, M.Phil., *Sr.Lecturer*

2.5.2 Highlights of the Research Activities:

Doctoral Research Work undertaken in the Department by all staff members include the areas, Mutual Funds, Venture Capital, Investor protection, Stock Market Trading, Primary and Secondary Capital Market. 30 Project works of [M.Com](#). Students and 15 MFS Project works were guided by the Department as part of the Corporate Internship of [M.Com](#). and M.F.S. IV semester. All the project works were based on the work experiences of the students in industries in Goa and outside Goa.

2.5.3 List of Visiting Scholars: (Name of Scholar, Institution, Title of Lecture Delivered, Date).

Gajendra Babu, C.A., Panjim, Corporate Reporting, June 2001-November 2001.

Mitendra Alve, VNS Bandekar College, Mapusa, Management Perspective, Computers/ Software Application in Business, June 2001-May 2002.

V. Sukhtankar, Goa Institute, Management Studies, Ribandar, Management Perspective, Computers/ Software Application in Business/ Software Applications in Financial Services, June 2001-May 2002.

Louis Vaz, C.A. Panjim, Advanced Management Accounting, June 2001-November 2001.
 Desai/ Carvalho/Divekar, State Bank of India, Management of Financial Institutions, June 2001-November 2001
 S. Salgaokar, Entrepreneurial Management, June 2001-November 2001.
 Savari Muthu, Management Consultant, Panjim, Indirect Taxation/ Materials Management, June 2001 to November 2002.
 M. R. Patil, VNS Bandekar College, Mapusa, Management Accounting /Advanced Marketing Management, June 2001 to May 2002.
 Herwin Furtado, St. Xavier's College, Mapusa, Essentials, Management, June 2001 to November 2001.
 Hoshidar, UT! Securities Exchange Ltd., Stock Market Operations, June 2001 to November 2001.
 Smitha Kamat, Essentials, Management, June 2001 to November 2001.
 R. L. Bhohe, C.A. Panjim, Direct Tax Laws, June 2001 to November 2001.
 Tensigh Rodrigues, Kothari Pioneer AMC Limited, Marketing, Financial Services, June 2001 to November 2001.
 Vinod Joshua, Advanced Financial Management: June 2001 to November 2001.
 Swati Rane, C.A. Panjim, Mergers & Acquisitions, June 2001 to November 2001.
 Ravi Shankar, Derivatives Market, June 2001 to November 2001.
 N. J. Prabhudesai, Direct Tax Laws, June 2001 to November 2001.
 Kiran Chuahan, Security Analysis, June 2001 to November 2001.
 Rohit Kukalekar, C.A. Panjim, Security Analysis, June 2001 to November 2001.
 Rajesh Chheda, C.A. Panjim, Security Analysis & Portfolio Management/ Insurance Management/ Personal Finance Management and Management, Mutual Funds, December 2001 to May 2002.
 Mukul Alve, Software Application 41 Business, December 2001 to May 2002.
 Swathi Rane, C.A. Panjim, *Economic Legislation*, December 2001 to May 2002.
 Sudarshan, Department, Economics, Treasury and Forex Management, December 2001 to May 2002.
 S.V. Sreenivasan, Birla Sun life Distribution Co. Ltd., Marketing, Financial Services, September 2001.
 Uma Shashikant, UTI Institute, Capital Markets, Fixed Assets & Liabilities Management/Investment Resolutions, November 2001.
 Sundararaman, National Stock Exchange, Mumbai, Treasury Management, April 2002.

2.5.5 Seminars/Conferences/Workshops, etc.

(b)(i) Attended: Seminars/Conferences: (Name of the Teacher, Name of Organising Institute, Dates, Title of Paper).

Y. V. Reddy, 23rd Indian Accounting Conference, S.V. University, Tirupathi, 13th - 14th September 2001
 Reporting in India.

Anthony Rodrigues & B. Ramesh, 23rd Indian Accounting Conference, S.V. University, Tirupathi, 13th September 2001 "Segment Reporting: A Case Study of MPT Goa"

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

Y. V. Reddy, EVA Reporting in India, Indian Journal of Accounting, XXVII, December 2001

2.5.9 Any other information:

(b) Fellowships/Visiting Professorships, etc. :

B. Ramesh, Chartered a technical session on "Segment Reporting" at the 23th All India Accounting Assol Annual Conference held at S.V. University, Tirupati on 13th September 2001.

2.5 (i) RESEARCH & DEVELOPMENT AND RESOURCES MOBILISATION CELL (RIM)

The Research in the University is funded through two sources. The University receives funds for Post-Graduate and Doctoral instructions from the Ministry of Education, State Government of Goa. The second major source of funding comes from the Research Projects. Over 155 Research and Development Projects and Consultancies are handled by the faculty members of Goa University funded by various Organisations such as Comission Scientific and Industrial Research (CSIR), Department of Science and Technology (DST), University Grants Commission (UGC), Department of Ocean Development (DOD), Atomic Energy Regulatory Board (AERB), Department of Biotechnology (DBT), Goa State Council of Science (GSCST), Rajiv Gandhi Drinking Water Mission (RGDNWM), Department of Environment and Forest Wild Life (DOENF), Contr India Pvt. Ltd (CIPL), Indian Council of Medical Research (ICMR), CIBA, South Asian Network for Development and Environmental Economics (SANDEE), and other public foundations of which

ongoing and are various stages of completion amounting to Rs. 7,39,56,556/-. In the year 2002 alone four Projects had been sanctioned to the Departments of Botany, Chemistry, Microbiology, Physics, 2 SAP Programmes to the Department of Physics and Chemistry and 4 FIST Programmes to the Departments of Physics, Botany, Geology and Zoology had been sanctioned. The total grants in this year was Rs 2,05,19,456/- funded by CSIR, DST, DOD, UGC, DBT.

2.6 (ii) HUMAN RESOURCE DEVELOPMENT CENTRE

Under the auspices, HRD Centre of Goa University and in collaboration with the Association of Indian College

Principals, an Executive Programme for College Principals was organised from 22nd - ⁻⁻ⁱⁿ z / April 2002. Twenty Principals (17 outstation and 3 local) from different states like Meghalaya, Haryana, Kashmir, Kerala, Andhra, Tamil Nadu, Maharashtra, Gujarat, Karnataka and Goa attended the programme.

The following were the topics dealt with during the programme:

Seven Habits of Highly Effective People; Leadership; Emotional Intelligence; Financing of Higher Education; NAAC and Vision; Use of Computers in Education.

2.6(111) VIRTUAL INSTITUTE FOR TRAINING (VIT)

It is a registered Society established in the University Campus to cater the need of training I. T. Professionals in Goa. The prestigious course "Post Graduate Diploma in Software Technology (PGST)" of NCST, Mumbai was started in June 2000. The Second batch intake was 51 against the intake of 50 during the year 2001-2002. In order to meet the need of students the computer Lab was updated by adding 5 more Computers.

In order to update the knowledge in the field of I. T. the VIT has conducted number of workshop/Seminar with the help of software experts from renowned organizations like NCST Mumbai, MASTEK Mumbai and RATIONAL Bangalore. The workshop was attended by Software Professionals from Industries and also by the faculties from Goa University and Colleges in Goa.

2.6 (iv) VERY LARGE SCALE INTEGRATION (VLSI) DESIGN & EDUCATION PROGRAMME

The VLSI (Very Large Scale Integration) design programme is a part of research and teaching activity of the Physics Department. The activities carried out under this programme during 2001-2002 are as follows:

1) Research: The research activity concentrates on the adaptation of PREDICTMOS MOSFET model for the integrated circuit design. Use of this model for submicron technology is made to develop a cardiac pacemaker. A research article on this work has been published in proceedings of VLSI 2002.

For developing a sensing electronic circuit for a pacemaker, the ACM moseFT, model has been used and the result of this investigation has been communicated to Proc. of VLSI 2003.

2) Teaching: As VLSI Design is pervading almost all branches of Electronic Science, it is realized that it ceases to be a specialized area but its essentials have to be spread to the grass root level of electronics Education. As a part of this programme, two courses on VLSI Design have been introduced in the M. Sc. Electronics course.

3) Academic — Industry interaction: Under this programme custom tailored courses have been designed and a course comprising 20 lectures on VLSI Design was offered to the research students, Local industry engineers and students from Engineering Colleges.

2.6 (v) CONVENTIONS AND EXPOSITIONS-GOIA UNIVERSITY (CONVEX-UNIGOIA)

The Society has been established in the Goa University and registered under registration Act 1860. It has been operative since the middle of 2000. The basic objectives of the Society are to undertake planning and organizing in selective and time bound manner, National and International conferences, workshops, seminars, schools symposia and other related events in the interest of University including Departments, Centres, Affiliated Colleges, Recognised Institutions, Government Organisations etc.

During 2001-2002 the Society with **help of University Departments and recognized institutions organized Bosai Show, National Seminar on Kokum, Environmental Economics Research Committee Workshop and Symposium on Post-Harvest Thchnologies for Agricultural Produce and prospects for Food Processing.**

Because of I I th September 2001 event, a very important conference, 2nd International Congress 5 Medicine which was to be organized by Goa University, has been postponed. Other activities like birding the help of Zoology Department have been making a lot of progress and it has been planned to organi International Birders Meet in Goa with the help of California Birders' Groups and Goa Birders Association

2.6 (vi) REMOTE SENSING LABORATORY (RSL)

A Remote Sensing Laboratory has been established with financial assistance from Indian Space Res Organization (ISRO). The facilities of the laboratory include both hardware and software necessary for i processing. To facilitate smooth functioning of lab a server and four nodes have been procured. Mor facilities have been created for image processing. To accomplish the task of image processing, I P pac such as ENVE and ERDAS IMAGINE have been procured. An interdisciplinary course has been introduc most of the Science departments. This laboratory provides hands on training to students who or interdisciplinary course on remote *sensing* and research. The Laboratory was formally opene Kasthurirangan, Chairman, Indian Space Research Organization in November 2000.

Different Science Departments have research projects wherein remote sensing component is either a part study or complete study is on the basis of the analysis of remotely sensed data. Department of Marine Sc and Marine Biotechnology has one such ongoing project.

2.6 (vii) OCEAN SCIENCE AND TECHNOLOGY CELL (OSTC)

Ocean Science and Technology Cell (OSTC) in the field of Marine Microbiology was established in Janua 1998, by the Department of Ocean Development. The cell recommends and monitors the progress of reseal projects in the field of Marine Microbiology and functions under the guidance from Management Board (Iv

During the period under report, following activities were held.

1. Management Board Meetings:

Ninth & Tenth Management Board meeting were held on 28th August 2001 & 8th February 2002 respective

2. Workshops (Ongoing and Short listed project proposals)

A. Ongoing: The status of the following five ongoing projects funded by DOD was reviewed on presentatic respective P. I. s on 7th February 2002.

Name of the Principal Investigator	Title of the Proposal
Achutankutty Shanta, N.I.O.,Goa	Role of Marine microaerophilic and anaerobic bacteria on DMS flux in estuarine ecosystem
Ramaballav Roy, Goa University	Marine bacteria as potential sources for Lenot and Linolenic acid in farmed animals
S. K. Dubey, Goa university	Studies on Marine bacteria transforming organ and development of microbial sensors for monitoring organotins in marine environment.
K. Kathiresan CAS in Marine Biology, T. N.	Agricultural fungicide from Marine Actinomyi
K. Indrani College of Fisheries, Mangalore	Viruses of marine shrimp along south coast wc coast of India

B. Short listed projects proposals

H. S. Chhatpar presented the [proposal on 27th August 2002 and the project was recommended for funding DOD

3. Award of research projects by DOD

Following two research projects recommended by expert committee and Management Board have been sanctioned for funding by DOD:

Name of the Principal	Title of the Proposal
H. S.Chhatpar, Biotechnology Centre, M.S. University, Baroda	Crustacean chitin waste management for the productic chitin, chitosan and biocontrol agents for plant pathog
A. Sait Sahul Hameed, C. Abdul Hakeem College, Melvishara-632 509, Vellora	Rapid survey of prevalence and geographic distributic white spot syndrome virus (WSSV) of shrimp along tl coast of India by the use of molecular probes

4. Meet of the Research Coordinator:

Third meetings of Research Coordinators was held on 19th September 2002, at National Institute of Ocean Technology, Chennai under the chairmanship of Secretary, DOD Harsh Gupta.

5. News Letter Third issue of the news letter of OSTC was issued during the current academic year.

2.6 (viii) ADVANCED CENTRE FOR INFORMATICS (ACI)

Advanced Centre for informatics has been set up during 1998-1999 in the University Campus with under Gu-NIC Planning Commission Coperative Programme in the area of Informatics with objectives of conducting advanced level short/long term courses and training programmes such as software engineering, CAD/CAM VLSI Design, PC based system design, Advanced Programming Languages etc.

ACI makes the computing facility available for the students of the University for carrying out projects and advanced level practical courses. Some good projects have been done in the past using AC! Computing in facility and few courses viz. Open source for Corporates: Linux 2000, Linux System and Network Management. Training Programmes for Government Employees in the area of Informatics, One day training Programme on Internet for University teachers and students etc. were also conducted in the past.

During 2001-2002 projects on Implementation of Clusters based Linux Operating system and Web — based Learning have been carried out by M. Sc. Electronics students in the ACI Laboratory. This facility has also been used by M. Sc. Electronics Students to perform practical on Assembly Language Programming by using TASM Assembler.

Students of M.C.A. Programme has completed a project on Computerization of Examination System for Goa University.

2.6 (ix) DISTANCE EDUCATION USING INTERACTIVE TELEVISION FOR INSTRUCTION (DEITI)

Under the Directorate of Distance Education of the University took a hold initiative to set up the DEITI with the support of Distance Education Council (Govt of India) and ISRO. Being a first experiment of its kind in the country, Goa will be the first state to use the facility for the purpose of Distance Education, there by enhancing quality of Education and reaching out to the remotest corner of the state with all kind of higher education facilities and expertise. The University also has plans to make use of the facility for community development programme.

During the year 2001-2002, basic infrastructure for DEITI has been set up, including 25 Direct Reception Centres (DRS) at different Higher Secondary Schools and Colleges, covering all II talukas of Goa. The infrastructure at Goa University includes state of the art Audio and videos production studio with two high speed CCD Cameras, basic digital videos and audio editing equipment, medium-power extended c-band satellite transmitter for broadcast and audio loopback equipment for live interactive broadcast.

PART 3: GENERAL ADMINISTRATION

3.1 GENERAL INFORMATION: The University could not take up much construction activity during year in view of the paucity of funds. In fact, all that the University could add to its asset was one building for Computer Lab Building Phase-I with the MPLAD Scheme. The University is awaiting sanction for the 2nd phase. This building after the completion of which, same will be made functional. As reported earlier, even though planning/designing of the following buildings has been completed and University has not been able to take up the work as it is awaiting financial approval from concerned Authorities.

1) Construction, Building for Life Science Faculty. 2) Construction of Indoor Stadium.

3.2 COMPUTERISATION OF UNIVERSITY ADMINISTRATIVE FUNCTIONS: The University has received a special grant from UGC for upgradation of Computer Centre and also for computerising, administrative functions and improving the campus network. In the first phase, an Internet Centre has been set up in the campus with 64 kbps leased line exclusively for students, faculties & staff of the University. There are 15 nodes available at the centre which is extensively used by the Users.

An action plan has also been prepared and approved for upgrading, Computer Centre as well as the administration by providing more Computers to various Administrative sections and improving the ca network by extending the fiber optic backbone to administrative building, Library and the new Examil building. This will facilitate better and more efficient administration in the University in future.

3.3 CONDUCT OF EXAMINATION: The University has conducted 75 Undergraduate and Post Gra Examinations in various faculties during the first and second half of 2001-2002. Altogether 6943 stt appeared for the Examinations and out of these, 6240 were declared successful. The University awarded 20 Ph. D. degrees in different subjects during the academic year 2001-2002.

3.4 GOA UNIVERSITY LIBRARY: Goa University Library and Information Resource Centre, is 16" year. A Library conceived in the year 1965 as a part of P.G. Centre, Bombay University then called with its modest collection has now grown into a well developed University Library. Presently its collect' books has reached to a total of 94916 with the addition of 4305 books for the year 2001-2002. The Libra, been designated as an U. N. Depository centre and it is receiving documents and United Nation's public since 1996. The Goa University Library subscribes to 152 foreign journals and 197 Indian journals apart the journals received on gratis. The other activities of the library are as follows:

(1) An ICSSR sponsored programme on Internet for Social Sciences was conducted for Social Scientists d April 2001. (2) A Training Workshop on Library Automation for Higher Secondary School Librarian' conducted during September 2001. (3)The Third Refresher course in Library Science was organised b) University Library in collaboration with the UGC Academic Staff College of Goa University from 25¹¹ 2001 to 14th August 2001. (4) An INFLIBNET sponsored training programme on Software for Univ Libraries (SOUL) Library Automation Software was conducted for college libraries during April 2002.

Universal Digital Library Project: Goa University Library in Collaboration with Indian Institute of Sci Bangalore and Carnegie Mellon University, Pittsburgh, Pennsylvania (USA) has taken up the University E Library project. With this collaborative effort, Goa University Library will be able to digitize its rare an collection and host the contents on the library website. Further, it is also proposed to digitize all thr documents available in different organization and private houses in Goa and build up a consolidated d collection on Goan history and culture.

Alongwith the above objectives, Goa University Library will be digitizing all the rare materials supplied t UDI. Project principals and become a partner in their "Indo-U.S. Million Books Digital Library Project." VISITS BY DIGNITARIES TO LIBRARY

T. A. V. Murthy, Director, INFLIBNET, Ahmedabad, 26th August 2001.
Vera Machado, Ambassador of Brazil, 25th January 2002.

3.5 STUDENTS SPORTS ACTIVITIES: Sports section of the University had conducted inter colic tournaments in different events Men (M) & Women (W) separately during the year 2001-2002, wh Trophies, Medals and Certificates were awarded to the following winners:

TEAM EVENTS: (Name of the Event, Position, College).

Table Tennis (M), Winners, St. Xavier's College,
Mapusa

Runners-up, MES College of Arts & Corn.,
Zuarinagar

Table Tennis (W), Winners, Shree Damodar
College of Corn. & Eco., Margao

Runners-up of MES College of Arts & Corn.,
Zuarinagar

Badminton (M), Winners, Saraswat's College of
Corn. & Man. Studies, Mapusa

Runners-up, MES College of Arts & Corn.,
Zuarinagar

Badminton (W), Winners, St. Xavier's College of
Mapusa

Runners-up, Shree Damodar College of Corn. &
Margao

Judo (M), Winners, Govt. College of Arts, Scien
Corn., Sanquelim

Runners-up, Govt. College of Arts, Scienc
Commerce, Quepem

Judo (W), Winners, Govt. College of Arts, Scien
Commerce, Sanquelim

Runners-up, Govt. College of Arts, Scienc
Commerce, Khandola

Chess, Winners, Goa Engineering College, Farma
Runners-up, GVM's College of Corn. & Eco., Poi

Weight Lifting (M), Winners, Saraswat's College of Corn. & Man. Studies, Mapusa
 Runners-up, St. Xavier's College, Mapusa
 Power Lifting (M), Winners, V. M.Salgaocar College of Law, Miramar
 Runners-up, DM's VNS Bandekar College of Arts, Science & Corn., Assagao
 Best Physiques (M), Winners, V. M.Salgaocar College of Law, Miramar
 Swimming (M), Winners, Govt. College of Arts, Science & Commerce, Quepem
 Runners-up, Govt. College of Arts, Science & Commerce, Khandola
 Cycling (M), Winners, Smt. P. Chowgule College of Arts & Science, Margao
 Runners-up, Govt. College of Arts of Science & Commerce, Khandola
 Tennikoit (W), Winners, G. R. Kare College of Law, Margao
 Runners-up, Shree Mallikarjun College of Arts & Corn., Canacona
 Football (M), Winners, Saraswat's College of Corn. & Man. Studies, Mapusa
 Runners-up, St. Xavier's College, Mapusa
 Football (W), Winners, Carmel College of Arts of Science & Commerce for Women, Nuvem
 Runners-up, St. Xavier's College, Mapusa
 Kabaddi (M), Winners, Govt. College of Arts, Science & Commerce, Sanquelim
 Runners-up, CES College of Arts & Commerce, Cuncolim
 Kabaddi (W), Winners, Govt. College of Arts, Science & Commerce, Sanquelim
 Runners-up, Saraswat's College of Corn. & Man. Studies, Mapusa
 Basketball (M), Winners, Smt. P. Chowgule College of Arts & Science, Margao
 Runners-up, Shree Damodar College of Commerce & Economics, Margao
 Basketball (W), Winners, St. Xavier's College, Mapusa
 Runners-up, Carmel College of Arts, Science & Commerce (W), Nuvem
 Hockey (M), Winners, St. Xavier's College, Mapusa
 Runners-up, Fr. Agnel College of Arts & Commerce, Pilar
 Hockey (W), Winners, St. Xavier's College of Mapusa
 Runners-up, DM's VNS Bandekar College of Arts, Science & Commerce, Assagao
 Runners-up, DCT Dhempe College of Arts & Science, Miramar
 Cross Country (M), Winners, Naval Academy, Verem
 Runners-up, Govt. College of Arts, Science & Commerce, Quepem
 Cross Country for (W), Winners, Rosary College of Corn. & Arts, Navelim,
 Runners-up, Govt. college of Arts, Science & Commerce, Khandola.
 Volleyball (M), Winners, Fr. Agnel College of Arts & Commerce, Pi lar
 Runners-up, Govt. College of Arts, Science & Commerce, Quepem
 Volleyball (W), Winners, Carmel College of Arts, Sc. & Corn. (W), Nuvem
 Runners-up, Smt. P. Chowgule College of Arts & Sc., Margao
 Kho Kho (M), Winners, CES , College of Arts & Commerce, Cuncol im
 Runners-up, GVM's College of Corn. & Economics, Ponda
 Kho Kho (W), Winners, Shree Mallikarjun College of Arts & Corn., Canacona
 Runners-up, CES College of Arts & Commerce, Cuncolim
 Handball (M), Winners, Post Graduate Students, Goa University
 Runners-up, Rosary College of Arts & Commerce, Navel i m, Salcette
 Handball (W), Winners, Rosary College of Arts & Commerce, Navel i m, Salcette
 Runners-up, Carmel College of Arts of Science & Commerce for women, Nuvem
 Tennis (M), Winners, Padre Concessao College of Engineering, Verna
 Runners-up, Shree Damodar College of Commerce & Economics, Margao
 Cricket (M), Winners, Shree Damodar College of Commerce & Economics, Margao
 Runners-up, DCT Dhempe College of Arts & Science, Miramar
 Cricket (W), Winners, St. Xavier's College, Mapusa
 Runners-up, PES College of Arts & Science, Farmagudi
 Athletics (M), Winners, DM's VNS Bandekar College of Arts, Sc. & Corn., Assagao
 Runners-up, Saraswat's College of Commerce & Mgt. Studies, Mapusa
 Athletics (W), Winners, St. Xavier's College of Mapusa Runners-up.

TEAM EVENTS: (Name, Medal, Event-Category, College).

Vishant Arlekar, Gold, Judo (M) 50 Kgs, Saraswat's College, Commerce & Mgt. Studies, Mapusa
 S. Karelkar, Silver, Judo (M) 50 Kgs, PES College of Arts & Science, Farmagudi
 I. Patel, Bronze, Judo (M) 50 Kgs, Govt. College of Arts_ of Science & Commerce, Khandola

- I. Patel, Bronze, Judo (M) 50 Kgs, Govt. College of Arts of Science & Commerce, Khandola
- J. Bandekar, Gold, 55 Kgs, G. R. Kare College of Law, Margao
- Sushant Redkar, 55 Kgs, Silver, Saraswat's College, Commerce & Mgt. Studies, Mapusa
- Melinson Gonsalves, Bronze, 55 Kgs, Govt. College of Arts, Science & Commerce, Khandola.
- Sandesh Barazankar, Gold, 60 Kgs group, Govt. College of Arts, Science & Commerce, Sanquelim
- Samir Hymed, Silver, 60 Kgs group, Govt. College of Arts, Science & Commerce, Khandola.
- Printex Mascarenhas, Bronze, 60 Kgs group, Govt. College of Arts, Science & Commerce, Quepem
- Vishnu Pethkar, Gold, 65 Kgs group, Govt. College of Arts, Science & Commerce, Sanquelim
- Sagar Naik, Silver, 65 Kgs group, PES College of Arts & Science, Farmagudi
- Francis Fernandes, Bronze, 65 Kgs group, Govt. College of Arts, Science & Commerce, Sanquelim
- Rupesh Kalangutkar, 71 Kgs group, Gold, DM's VNS Bandekar College of Arts, Sc. & Corn., Assagao
- Prashant Gawas, Silver, Govt. College of Arts, Science & Commerce, Sanquelim
- Arityk Fernanda, Bronze, Govt. College of Arts, Science & Commerce, Quepem
- Rahul Dessai, 86 Kgs group, Gold, GVM's College of Corn. & Economics, Ponda
- Gajanan Naik, Silver, Govt. College of Arts, Science & Commerce, Quepem
- Tushar Karmalkar, Bronze, G. R. Kare College of Law, Margao
- Amit Madwalkar, above 86 Kgs group, Gold, PG Rajan Naik, Silver, Govt. College of Arts, Science & Commerce, Quepem
- Amit Malkarnekar, Bronze, Govt. College of Arts, Science & Commerce, Quepem
- Jivan Bandekar, Best Judoca, G.R. Kare College of Law, Margao
- Judo (W) Jaya Kankanwadi, Gold, 44 Kgs group, Saraswat's College, Commerce & ML Studies, Mapusa
- C. Kudnekar, Silver, Govt. College of Arts, Science & Commerce, Quepem
- Suhashini Nagde, Bronze, Saraswat's College, Commerce & Mgt. Studies, Mapusa
- Bhavani Swami, Gold, 48 Kgs group, PES College of Arts & Science, Farmagudi
- Nivedita Desai, Silver, Govt. College of Arts, Science & Commerce, Sanquelim
- Sharmila Gawde, Bronze, Govt. College of Arts, 5 & Commerce, Sanquelim
- S. Fernandes, Gold, 52 Kgs group, Rosary Coll Arts & Commerce, Navelim, Salcette
- Jovya Lobo, Silver, Govt. College of Arts, Sci(Commerce, Khandola.
- Navaji Argatti, Bronze, Govt. College of Arts, 5 & Commerce, Sanquelim
- R. Surekar, Gold, 56 Kgs group, Govt. College of Science & Commerce, Sanquelim
- Debora D' S i I va, Silver, Rosary College of / Commerce, Navelim, Salcette
- Rahi Phadte, Bronze, Govt. College of Arts, Sci(Commerce, Khandola.
- N. Lobo, Gold, 61 Kgs gr., Saraswat's C Commerce & Mgt. Studies, Mapusa
- Tina Blaggan, Silver, Govt. College of Arts, Sci(Commerce, Sanquelim
- Nithya Asokan, Bronze, Govt. College of Arts, 5 & Commerce, Khandola.
- Marry Vivian, above 61 Kgs. gr., Gold, SI Chowgule College of Arts & Science, Margao
- Poonam Parab, Silver, Govt. College of Arts of 5 & Commerce, Khandola
- Jonira Fernandes, Bronze, Govt. College of Science & Commerce, Quepem
- BEST JUDOSIST, Succorina Fernandes, Rosary (of Arts & Commerce, Navelim, Salcette
- Weight Lifting (M), Akash Kadam, Gold, 54 Kgs Xavier's College, Mapusa
- Shripad Mauzo, Silver, Saraswat's College, Con & Mgt. Studies, Mapusa
- Vinayak Sawaldesai, Bronze, Saraswat's C Commerce & Mgt. Studies, Mapusa
- S. Balekar, Gold, 59 Kgs gr., Dhempe College of Sc. Miramar
- Kailash Gaonkar, Silver, Saraswat's Colle Commerce & Mgt. Studies, Mapusa
- Sagar Gosavi, Bronze, Govt. College of Arts, Sci(Commerce, Quepem
- Armstrong D'Souza, Gold, 64 Kgs gr., Xavier C Mapusa
- Pravut Chodankar, Silver, Saraswat's Cone; Commerce & Mgt. Studies, Mapusa
- Vishwanath Reddy, Bronze, MES College of / Corn., Zuarinagar
- Andrew Gomes, Gold, 70 Kgs gr., G. R. Kare Coll Law, Margao
- Vinay Chodankar, Silver, Saraswat's Collej Commerce & Mgt. Studies, Mapusa
- Job Jaishal, Bronze, G.R. Kare College of Law, MI Waman Gaitonde, Gold, 76 Kgs gr., V M Sal, College of Law, Miramar
- Sharbel Egipsy, Silver, Goa University
- Jairam Raut, Bronze, Saraswat's College of Com & Mgt. Studies, Mapusa

Ambarish Shet Marathe, 83 Kgs gr., Gold, CES College of Arts & Corn., Cuncolim

Priyesh Gaude, Silver, VM Salgaocar College of Law, Miramar

Gajanan Naik, Bronze, Govt. College of Arts, Science & Commerce, Quepem

Ivo Alvares, Gold, 91 Kgs gr., St. Xavier's College of Mapusa College

Kaustubh Pitre, Silver, St. Xavier's College, Mapusa

Derrick D'Souza, Bronze, Saraswat's College, Commerce & Mgt. Studies, Mapusa

Sheldon Lobo, Gold, 99 Kgs gr., V M Salgaocar College of Law, Miramar

Saiprasad Arolkar, Silver, Saraswat's College of Commerce & Mgt. Studies, Mapusa

Pankaj Rai, Bronze, Saraswat's College of Commerce & Mgt. Studies, Mapusa

Sudesh Natekar, Gold, 108 Kgs gr., DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

Sherwin Pinto, Gold, Above 108 Kgs gr., Dhempe Vledson Braganza, Silver, VM Salgaocar College

Doyl D'Souza, Bronze, Saraswat's College of Commerce & Mgt. Studies, Mapusa

GOA UNIVERSITY IRON MAN, Shekhar Balekar, Dhempe College of Arts & Sc. Miramar

Power Lifting (M), Mukesh Navelkar, Gold, 52 Kgs gr., V M Salgaocar College of Law, Miramar

Akash Kadam, Silver, St. Xavier's College, Mapusa

Dattaraj Mauzekar, Bronze, V M Salgaocar College of Law, Miramar

Savio Viegas, Gold, 56 Kgs gr., Govt. College of Arts, Science & Commerce, Quepem

Windsor D'Souza, Silver, DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

Geetesh Naik, Bronze, Govt. College of Arts, Science & Commerce, Quepem

Shekhar Balekar, Gold, 60 Kgs gr., Dhempe College of Arts & Sc., Miramar

Armstroit D'Souza, Silver, St. Xavier's College, Mapusa

Virendra Kamat, Bronze, V M Salgaocar College of Law, Miramar

Prajyot Sawant, Gold, 67.5 Kgs gr., Goa University

Tejesj Lanjekar, Silver, DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

Gorakh Kamat, Bronze, S S Dempo of Commerce, Altinho, Panjim

Waman Gaitonde, Gold, 75 Kgs gr., V M Salgaocar College of Law, Miramar

Andrew Gomez, Silver, G. R. Kate College of Law, Margao

Sharbel Egipsy, Bronze, Goa University

Ambarish Shet Marathe, Gold, 82.5 Kgs gr CES College of Arts & Corn., Cuncolim

Priyesh Gaude, Silver, V M Salgaocar College of Law, Miramar

Khan Mohammad Imran, Bronze, Damodar College of Corn. & Eco., Margao

Kaustubh Pitre, Gold, 90 Kgs gr St. Xavier's College, Mapusa

Buyao Sarikar, Silver, Govt. College of Arts, Science & Commerce, Quepem

Bronze, Prashant Walke, Saraswat's College, Commerce & Mgt. Studies, Mapusa

Sheldon Lobo, 100 Kgs gr., Gold, V M Salgaocar College of Law, Miramar

Razashad Shaikh, Silver, Chowgule College of Arts & Sc., Margao

Jaidev Korgaokar, Bronze, DM'S VNS Bandekar College of Arts, Sc. & Com., Assagao

Sudesh Natekar, 110 Kgs gr., Gold, DM'S VNS Bandekar College of Arts, Sc. & Com., Assagao

Jaison Abraham, Silver, DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

Rahul Mascarenhas, Bronze, V M Salgaocar of Law, Miramar

Sherwin Pinto, above 110 Kgs gr., Gold, Dhempe College of Arts & Sc., Miramar

Vledson Braganza, Silver, VM Salgaocar College of Law, Miramar

Balden Baptista, Bronze, DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

GOA UNIVERSITY STRONGEST MAN, Shekhar Balekar, Dhempe College of Arts & Sc. Miramar Best physique (M),

Royson Fernandes, 65 Kgs gr., Gold, PCC College, Verna

Shekhar Balekar, Silver, Dhempe College of Arts & Sc. Miramar

Savio Viegas, Bronze, Govt. College of Arts, Science & Commerce, Quepem

Travor D'Souza, 70 Kgs gr., Gold, Damodar College of Corn. & Eco., Margao

Silver, Naveen Kalangutkar, Dhempe College of Arts & Sc. Miramar

Prajyot Sawant, Bronze, Goa University

Waman Gaitonde, 80 Kgs gr., Gold, VM Salgaocar College of Law, Miramar

Sharbel Egipsy, Silver, Goa University

Newton Dias, Bronze, V M Salgaocar College of Law, Miramar

GOA UNIVERSITY, Travor D'Souza, Damodar College of Com. & Eco., Margao '

S K Mohanta, Cross Country (M), Gold, Naval Academy, Verem

Cdt Hanumant, Silver, Naval Academy, Verem

S K Singh, Bronze, DCA ,Naval Academy, Verem

Cross Country (W), Gold, Jeena Gomes, Govt. College of Arts, Sc. & Corn., IChandola

Sharmila Deikar, Silver, Govt. College of Arts, Science & Commerce, Quepem

Valanky Dumaskar, Bronze, Rosary College of Arts & Commerce, Navelim, Salcette

Vinay Kumar, Swimming (M), 100 Mtrs Back-stroke, Gold, Chowgule College of Arts & Sc., Margao

Sachin Rivankar, Silver, Govt. College of Arts, Science & Commerce, Quepem

Hemanand Gaude, Bronze, Govt. College of Arts, Sc. & Corn., Khandola

Prashant Paiginkar, 100 Mtrs Free-style, Gold, G.R. Kare College of Law, Margao

Miransha Prabhu Naik, Silver, Govt. College of Arts, Science & Commerce, Quepem

Vinay Kumar, Bronze, Chowgule College of Arts & Sc., Margao

Vinay Kumar, 100 Mtrs Breast-stroke, Gold, Chowgule College of Arts & Sc., Margao

Amit Malkarnekar, Silver, Govt. College of Arts, Science & Commerce, Quepem

Abhijit Naik, Bronze, PC College, Verna

Miransha Prabhu Naik, 200 Mtrs Free-style, Gold, Govt. College of Arts, Science & Commerce, Quepem

Hemanand Gaude, Silver, Govt. College of Arts Sc. & Corn., Khandola

Abhijit Naik, Bronze, P C College, Verna

Prachi Lotlikar, Swimming (W), 50 Mtrs Back-stroke, Gold, P C College, Verna

Ayesha Madgaonkar, Silver, St. Xavier's College, Mapusa

Jayee Borkar, Bronze, P C College, Verna

Prachi Lotlikar, 50 Mtrs Free-style, Gold, P C College, Verna

Ayesha Madgaonkar, Silver, St. Xavier's College, Mapusa

Jayee Borkar, Bronze, 50 Mtrs Breast-stroke, Gold, P C College

Ayesha Madgaonkar, Gold, 50 Mtrs Breast-stroke, St. Xavier's College, Mapusa

Prachi Lotlikar, Silver, P C College, Verna

Jayee Borkar, Bronze, P C College, Verna

Gaurav Vernekar, Cycling (M), Gold, Chowgule College of Arts & Sc., Margao

Suraj Prabhudesai, Silver, G. R. Kare College of Law, Margao

Sachin Savio Moraes, Bronze, Rosary College of Arts & Commerce, Navelim, Salcette

Gajanan Pednekar, Athletics (M), 1500 Mtrs run, Gold, DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

Ulhas Mahale, Silver, Govt. College of Arts & Corn., Pernem

Andrew Clement^o, Bronze, Govt. College of Science & Commerce, Quepem

Shailesh Chodankar, Long Jump, Gold, San College, Commerce & Mgt. Studies, Mapusa

Marc Lobo, Silver, V M Salgaocar College o Miramar

Joao Colaco, Bronze, Rosary College of A Commerce, Navelim, Salcette

Gaurav Powar, High Jump, Gold, V M Sal College of Law, Miramar

Kingston Mathew, Silver, Fr. Agnel College of Corn., Pilar

Sadashiv Rawool, Bronze, Govt. College of Corn., Pernem

P.D. Shashikumar, 100 Mtrs run, Gold, Dhepme (of Arts & Sc. Miramar

Shailesh Chodankar, Silver, Saraswat Colic Commerce & Mgt. Studies, Mapusa

Yogesh Parab, Bronze, Damodar College of C Eco., Margao

4 x 400 Mtrs Relay, Gold, Govt. College, Govt. College of Arts, Scic Commerce, Quepem

Silver, St. Xavier's College, Mapusa

Bronze, Fr. Agnel College, Pi lar

10000 Mtrs Run, Branko Vales, Gold, Fr. Agnel College of Arts & Pilar

Gajanan Pednekar, Silver, DM'S VNS Bandekar (of Arts, Sc. & Corn., Assagao

Yeshwant Gawas, Bronze, Govt. College of Arts, Corn., Sanquelim

Paul Zito Furtado, Discuss Throw, Gold, Goa Unil

Jaidev Korgaonkar, Silver, DM'S VNS Ba College of Arts, Sc. & Corn., Assagao

Armstrong D'Souza, Bronze, St. Xavier's C Mapusa

Vishal Shirodkar, 800 Mtrs run, Gold, S. S.I College, Altinho, Panjim

Melbourne Sequeira, Silver, DM'S VNS Ba College Of Arts, Sc. & Corn., Assagao

Chandan Gawas, Bronze, Govt. College of Arts, Corn., Sanquelim

Sherwin Pinto, Shot Put, Gold, Dhepme College & Sc. Miramar

Roy D'Costa, Silver, S. S. Dempo College, A Panjim

Oswald Fernandes, Bronze, DM'S VNS Ba College Of Arts, Sc. & Corn., Assagao

400 Mtrs Hurdles, Kushta Gawas, Gold, DM'S VNS Bandckar Coll Arts, Sc. & Corn., Assagao

Vishnu Pethkar, Silver, Govt. College of Arts, Corn., Sanquelim

B. B. Shingadi, Bronze, Govt. College of Arts, Sell Commerce, Quepem

200 Mtrs Run,

P. D. Shashikumar, Gold, Dhempe College of Arts & Sc., Miramar

Shailesh Chodankar, Silver, Saraswat's College, Commerce & Mgt. Studies, Mapusa

Saroj Diukar, Bronze, St. Xavier's College, Mapusa

4 x 100 Mtrs Relay, Gold, S. S. Dempo College, Panjim College

Silver, Sataswat's College of Commetee & Mgt. Studies, Mapusa

Bronze, Dhempe College of Arts & Sc., Miramar

5000 Mtrs Run, Pedro Fernandes, Gold, St. Xavier's College, Mapusa

Deepak Khade, Silver, Govt. College of Arts, Sc. & Corn., Sanquelim

Gajanan Pednekar, Bronze, DM'S VNS Bandekar College of Arts, Sc. & Corn., Assagao

Shatrughna Dubal, 20 Kms Walk, Gold, DM'S VNS Bandekar College of Arts, Sc. & Corn., Assagao

Vallabh Naik, Silver, Govt. College of Arts, Science & Commerce, Quepem

Sam Braganza, Bronze, St. Xavier's College, Mapusa

110 Mtrs Hurdles, Vishnu Pethkar, Gold, Govt. College of Arts, Sc. & Corn., Sanquelim

Kushta Gawas, Silver, DM'S VNS Bandekar College of Arts, Sc. & Corn., Assagao

Dattaprasad Lotlikar, Bronze, G.R. Kare College of Law, Margao

Shailendra Gaonkar, Pole Vault, Gold, Saraswat's College, Commerce & Mgt. Studies, Mapusa

Geetesh Naik, Silver, Govt. College of Arts, Science & Commerce, Quepem

B.B.Shingadi, Bronze, Govt. College of Ails, Science & Commerce, Quepem

Rohidas Arolkar, Jaye!!line throw, Gold, DM'S VNS Bandekar College of Arts, Sc. & Corn., Assagao

Vishant Priolkar, Silver, Khandola

Mahesh Gadekar, Bronze, DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

Shailesh Chodankar, Tripple Jump, Gold, Saraswat's College, Commerce & Mgt. Studies, Mapusa

Tushar Lotlikar, Silver, P G, Goa University

Shailendra Gaonkar, Bronze, Saraswat's College, Commerce & Mgt. Studies, Mapusa

400 Mtrs run, P. D.Shashikumar, Gold, Dhepme College of Arts & Sc. Miramar

Melbourne Sequeira, Silver, DM'S VNS Bandekar College Of Arts, Sc. & Corn., Assagao

Krishna Sawant, Bronze, S. S. Dempo College, Panjim

Vishant Priolkar, Decathlon, Gold, Govt. College of Art Sc. & Corn., Khandola

Shailendra Gaonkar, Silver, Saraswat's College Commerce & Mgt. Studies, Mapusa

Nitin Palienkar, Bronze, Saraswat's College, Commerce & Mgt. Studies, Mapusa

Melroy Antao, Hammer Throw, Gold, V M Salgaoca College of Law, Miramar

Jaidev Kutgaunkat, Silver, DM'S VNS Bandeka College Of Arts, Sc. & Corn., Assagao

Vledson Braganza, Bronze, V M Salgaocar College o Law, Miramar

Shailes!1 Chodankar, Individual Championship, Gold S::rnmvat's College, Commerce & Mgt. Studies Mapusa

P.D.Shashikumar, Silver, Dhcpmc College of Arts & Sc Miramar

Gajanan Pednekar, Bronze, DM'S VNS Bandekal College Of Arts, Sc. & Com., Assagao

Athletics (W), 1500 Mtrs run, Gold, St. Xavier's College, Mapusa

Ramona D'Souza, Silver, Supriya Sawal, St. Xavier's College, Mapusa

Ramona D'Souza, Bronze, Govt. College of Arts Science & Commerce, Quepem

Darling Mccann, Shot Put, Gold, St. Xavier's College, Mapusa

Lareine Mascarenhas, Silver, Rosary College of Arts & Commerce, Navelim, Salcette

Macline Mendonca, Bronze, St. Xavier's College, Mapusa

[00 Mtrs run, Uvena Fernandes, Gold, G.R. Kare College of Law, Margao

Ramona D'Souza, Silver, St. Xavier's College, Mapusa

Jannifer Fernandes, Bronze, MES College of Arts & Com., Zuarinagar

4 x 400 Mtrs Relay, Gold, St. Xavier's College, Mapusa

Silver, Rosary College of Arts & Commerce, Navelim, Salcette

Bronze, Govt. College, Govt. College of Arts, Science & Commerce, Quepem

Jeena Gomes, 5000 Mtrs run, Gold, Govt. College of Arts Sc. & Corn., Khandola

Sharmila Deikar, Silver, Govt. College of Arts, Science & Commerce, Quepem

Chandraprabha Patil, Bronze, Rosary College of Arts & Commerce, Navelim, Salcette

200 Mtrs Run, Uvena Fernandes, Gold, G.R. Kare College of Law, Margao

Ramona D'Souza, Silver, St. Xavier's College, Mapusa

Nora Fernandes, Bronze, Saraswat's College, Commerce & Mgt. Studies, Mapusa

800 Mtrs run,

Valanky Dumaskar, Gold, Rosary College of Arts & Commerce, Navelim, Salcette

Supriya Sawal, Silver, St. Xavier's College, Mapusa

Sulochana Kalshavkar, Bronze, Govt. College of Arts & Corn., Pemem

Silver, Tulshi Naik, DM'S VNS Bandekar College of Arts, Sc. & Corn., Assagao

Nivedita Desai, Bronze, Govt. College of Arts Sc. & Corn., Sanquelim

400 Mtrs Hurdles,
Nora Fernandes, Gold, Saraswat's College, Commerce & Mgt. Studies, Mapusa

Sarika Naik, Silver, Govt. College of Arts, Science & Commerce, Quepem

Sharmila Deikar, Bronze, Govt. College of Arts, Science & Commerce, Quepem

Sarika Naik, Heptathlon, Gold, Govt. College of Arts, Science & Commerce, Quepem

Elizabeth Lobo, Silver, Govt. College of Arts Sc. & Corn., Khandola

Nichola Vaz, Bronze, DM'S VNS Bandekar College of Arts, Sc. & Corn., Assagao

4x 100 Mtrs Relay,
Gold, Rosary College of Arts & Commerce, Navelim, Salcette

Silver, St. St. Xavier's College, Mapusa

Bronze, Govt. College, Govt. College of Arts, Science & Commerce, Quepem

Valanky Dumaskar, Javelline Throw, Gold, Rosary College of Arts & Commerce, Navelim, Salcette

Darling Mccann, Silver, St. Xavier's College, Mapusa

Ramona Soares, Bronze, St. Xavier's College, Mapusa

Audrey Mohanan, Long Jump, Gold, Govt. Col Arts Sc. & Corn., Sanquelim

Jannifer Fernandes, Silver, MES College of , Corn., Zuarinagar

Uvena Fernandes, Bronze, G. R. Kare College Margao

3000 Mtrs Run,
Ramona D'Souza, Gold, St. Xavier's College, M, Supriya Sawal, Silver, St. Xavier's College, Main

Jeena Gomes, Bronze, Govt. College of Arts Corn., Khandola

100 Mtrs Hurdles,
Sarika Naik, Gold, Govt. College of Arts, Selo Commerce, Quepem

Jannifer Fernandes, Silver, MES College of , Corn., Zuarinagar

Nora **Fernandes, Bronze**, Saraswat Colic Commerce & Mgt. Studies, Mapusa

400 Mtrs Run,
Uvena Fernandes, Gold, G. R. Kare College Ma rgao

Jyoti Chodankar, Silver, Saraswat Colic, Commerce & Mgt. Studies, Mapusa

Sulochana Kalshavkar, Bronze, Govt. College of Corn., Pernem

Darling Mccann, Discuss Throw, Gold, SO College, Mapusa

Laraine Mascarenhas, Silver, Rosary College of Commerce, Navelim, Salcette

Crystal Mccann, Bronze, Saraswat's College, Cor & Mgt. Studies, Mapusa

Uvena Fernandes, Individual Championship, Gol Kare College of Law, Margao

Ramona D'Souza, Silver, St. Xavier's College, M

Valanky Dumaskar, Bronze, Rosary College of Ai Commerce, Navelim, Salcette

GOA UNIVERSITY HAS DEPUTED FOL LOWING TEAMS FOR INTER-UNIVER: COMPETITIONS DURING THE YEAR 2001-02

Event, Venue, Team Members, Position

Judo (M), All India, Jiwaji University, Gwalior, Sandesh Barazankar, Vishant Alekar, Rupr Kalangutkar, Rahul Desai, Amit Madwalkar; No Position

Judo (W), All India, Jiwaji University, Gwalior, Bhawani Swami, Succorin Fernandes, Nichole Lobo, Jr Kankanwadi; No Position

Football (M), West Zone & All India, J.N.Vyas University, Jodhpur & Calcutta University, Creighi Travasso, Sandy Fernandes, Jude Fernandes, Sunil Nanodkar, Godfrey Rebello, Rohan Fernandes, M; Dourado, Devraj Tani, Jovey Falcao, Valmiki Cardozo, Augusto Monteiro, Milind Rane, Rikil Chyrmai Cronny D'Silva, Gabriel Fernandes, Pradeep Chopdekar, Sherwin Lobo, Milton Fernandes (Manago Raymund Carvalho(Coach); Runners-up at west zone

Cricket (M), West Zone, M.S. University, Baroda, Amlon D'Souza, Shadik Shaikh, Dattaraj Korgaonk Sandeep Sharma, Sumeet Naik, Tushar Sawant, Shaikh Jaffar, Parshuram Shetye, Gaurav Borkar, Tush Naik, Rupesh Korgaonkar, Nikhil Korgaonkar, Yogesh Moratgikar, Nitin Ghadi, Abhilash **Mundek** Russel Pinto, D. S. Betkar (Manager), Devashish Bagchi(Coach); No Position

Badminton (W), West Zone, Jiwaji University, Gwalior, Melasheemi Sandhya, Sonali Gaonkar, Mehrun Samad, Seema Melasheemi, G.N.Naik (Manager), Roy Athaide (Coach); Lost in second round

Basketball (M), West Zone, Rajasthan University, Jaipur, Baptist Pereira, Spencer Viegas, Shafiq Costa Pereira, Rui Cruz, Aaron Lobo, Clyde Dias, Henrique Osberne Jesus, Pinheiro Doughlas M.S., Pacheco Ryan, Kelwyn Rodrigues, Sherwin Pinto, Drean Vaz, Olencio Dias (Coach); Lost in third round
Pistol & Rifle Shooting (M), All India, University, Mumbai, Mayur Kalyankar, Vinod Malik. Anant Panjekar, Preetesh Chatim, Mehboob Khan (Coach); Seventh Position
Athletics (M) & (W), All India, University, Calicut, Uvena Fernandes, Ramona D'Souza Jennifer Fernandes, Nora Fernandes, P.D.Shashikumar, Shailesh Chodankar, Sudhakar Naik (Manager); No Position

3.6 DIRECTORATE OF STUDENTS' WELFARE AND CULTURAL AFFAIRS:

Directorate of Students' Welfare & Cultural Affairs undertakes curriculums, 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 the social activities, in order to enable them to translate their knowledge into practical reality. The Directorate organises 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 and University authorities, other Universities, Government, semi Government and Voluntary institutions etc. Goa University has constituted the following students-bodies, in order to administer the activities of the students.

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

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

Activities: 1. Election of Goa University students' council for the year 2001-2002.

2. Election of post graduate students Union for the year 2001-2002.

3. Organised Inter Faculty Youth Festival for P.G. students in February, 2002.

a) Earn While You Learn - Needy P.G. students are engaged under this scheme for pretty academic jobs on the campus and paid certain remuneration for their contribution.

b) Student's Aid Fund - Financial assistance is given to the deserving P.G. students to meet their expenditure towards tuition fee, examination fee, books etc. (maximum Rs. 1,5001-).

c) All students (PG & UG) of Goa University are covered under student's safety Insurance scheme and are entitled to receive Insurance benefits under this scheme.

d) Organised one day seminar on 9th March 2002 at the seminar hall of Arts faculty building, on the Topic "College Students' Council: Its prospects during 21 Century".

3.7 PUBLICATION UNIT: The Publication Unit was formed on 30th March 2000 and the unit undertakes activities related to the various publication brought out by the University such as Annual Report, Annual Hand Book, Pocket Telephone Directory, News Bulletin etc.

3.8 U. G. C. ACADEMIC STAFF COLLEGE

Faculty Members:

F.A. Fernandes, *Director*

P. Rebeiro, *Reader*

The Academic Staff Orientation Scheme is an outcome, NPE (1986). The NPE, in its programme, action, make a pointed reference to the crucial link between teacher motivation and quality of education. Teachers, as know, occupy a key position in the education system. The quality, competence and character of teachers, are utmost importance. They influence the standard of education and thus contribute to national development. **TI** teachers should function as effective instruments of development and social change.

The UGC-ASC came into being with an overall objective of acting as an agency to bring about changes and facilitate development in education. It is meant to involve itself in the improvement in the Management Higher Education and to bring about a closer linkage between society and Higher education through meaning study and Research.

The UGC-ASC at Goa University came into existence in February 1988. It has been conducting Orientation Courses from its inception. In addition to Orientation and Refresher Courses, the UGC-ASC has been organizing Seminars/ Conferences and other academic activities regularly.

So far we have completed 61 Orientation Programmes and 112 Refresher Courses and have covered 202 2935 participants respectively.

During the year 2001-2002 the UGC-ASC conducted 4 Orientation Courses and 11 Refresher Courses in Geography; Physical Education; Library Science; Political Science; Zoology; Computer Science; Ethic Hindi; English; Chemistry; Physics.

3.8.5 Seminars/Conferences/Workshops, etc.

F. A. Fernandes, National Training Programme of NAAC's Accreditation Process, Mumbai, 14th - 16th Ap 2002.

3.8.6 Publications :(a) Research Articles: Name, teacher and bibliographical details (Name, Title, Joui Month/Year.

Philomena J. Rebeiro, Job Satisfaction among College Teachers, Indian Journal of Psychometric and Education, Vol.32 No.2 pgs.139-142, July 2001.

3.8.8 (a) Data regarding students registered in the faculty for degree and dipl./ cert. courses
Ph.D. Rosy Menezes registered for Ph.D. (English) under the guidance of F. A. Fernandes.

3.8.9 Any other information.

(b) Fellowship/Visiting Professorships, etc.

F. A. Fernandes visited College, International Relations, Nihon University, Mishima, Japan to deliver lecture on "Educational System in India and Study India Programme" during 26th May - 3rd June 2002.

Following Orientation and Refresher courses were conducted:MF	Total		
Refresher Course in Library Science 25.7.01 - 14.8.01	19	9	28
Refresher Course in Zoology 28.8.01 - 17.9.01	20	12	32
58 th Orientation programme 20.9.01-17.10.01	24	14	38
59 th Orientation programme 25.09.01-22.10.01	27	12	39
Refresher Course in Education 23.10.01-12.11.01	24	11	35
Refresher Course in Political Science 23.11.01-12.11.01	14	8	22
Refresher Course English 16.11.01-6.12.01	16	21	37
Refresher Course in Hindi 20.11.01-10.12.01	17	19	36
Refresher Course in Computer Science 21.11.01-11.12.01	11	15	26
Need Based Refresher Course in Geography 13.12.01-2.1.02	23	4	27
60 th Orientation Programme 14.12.01-10.1.02	19	8	27
Refresher Course in Chemistry 6.02.02-26.02.02	14	6	20
61 st Orientation Programme 7.02.02-6.03.02	22	15	37
Need Based Refresher Course in Physical Education 7.3.02-27.03.02	21	2	23
Refresher Course in Physics 8.03.02-28.03.02	21		21

3.9 COLLEGE DEVELOPMENT COUNCIL: The college development council has been set! the Goa University to establish liaison between affiliated colleges and the University/University C Commission. It provides information to the colleges about various grants available for development for

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 CDC sends all relevant information about various UGC schemes under which colleges can obtain grants for development & research. TN 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 to assessing their performance and suggest improvements.

Minor Research Project & Teacher Fellowship granted by the UGC to Colleges

St. Xavier College, Mapusa

B. C. Nair - Sanctioned Rs. 40,000/-
Sajo P. Naik - Sanctioned Rs. 3,857/-

Carmel College for Women, Nuvvuru

Manoj R. Borkar - Sanctioned Rs. 14,000/-
Sr. Viegas L. C. - Sanctioned Rs. 49,500/- (Teacher Fellowship.)
Jaoo B.C.E. - Sanctioned Rs. 36,000/- "

Govt. College, Sanquelim

D. B. Arolkar - Sanctioned Rs. 30,000/-
V.G.Chindarkar - Sanctioned Rs. 19,500/-
Purnkarla V.Samant - Sanctioned Rs. 27,500/-

Smt. Parvatibai Chowgule College, Margao

Omprakash Tripathi - Sanctioned Rs. 30,000/-

PBS College, Farmagudi, Ponda

Sima V. Kamat - Sanctioned Rs. 22,500/-
S. H. Bhosle - Sanctioned Rs. 11,000/-
Prabhu Keliskar Satish - Sanctioned Rs. 34,000/-

Proposals sanctioned by the Pune Regional office for Grants for conducting Seminars/Workshops at state level.

Smt. Parvatibai Chowgule College, Margao

Seminar by " Bhaktikal may Pramukh Kaviyo Ka Punarmullyakan "
Seminar by " Contemporary Development Initiatives".

Fr. Auld College, Pilar

Seminar by " Professional Competence in Higher Education" dated 22/3/2002

Govt. College, Sanquelim

Seminar by " Impact of International Terrorism on Goa's Economy"
Seminar by " Yuva Konkani Sahitya Sammelan in Konkani"

Nirmala Institute, Education, Altinho, Panaji

Seminar by " Building Social Concern & Commitment in College Youth".

UGC Grants under College Humanities and Social Sciences improvement Programme (COHSSIP) and College Science improvement programme (COSIP)

Smt. Parvatibai Chowgule College, Margao

COSIP - Sanctioned Rs. 30,000/-
COHSSIP - Sanctioned Rs. 60,000/-

Shree Damodar College, Margao

COHSSIP-Sanctioned Rs. 60,000/-

MES College, Zuarinagar

MRP & Humanities & Social Science - Sanctioned Rs. 43,780/-

Release of Grant-in-aid to the Vocational Colleges

Cannel College for Women, Nuvem -Sanction Rs. 1, 30,000/-

Dhempe College, Miramar, Panaji -Sanctioned Rs. 1, 90,000/-

New Colleges have been sanction under section 2(F) 12(B), UGC Act.

Rossary College, Navelim

Fr. Agnel College, Pilar

3.10 BOARD OF EXTRA MURAL STUDIES AND EXTENSION SERVICES

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

REGISTRAR, *Vice-Chairman, (Er-Officio)*

I. K. PAI, Hon. Director, *Member Secretary*

BHARAT' BANDODKAR, *Member*

MANIK RAO GAUNEKAR, *Member*

V. N. KAMAT DALAL, *Member (Ex-Offick)*

1) Government of India's Ministry, Non-Conventional Energy Sources sponsored Non-Conventional Er park at Goa University became functional (Project cost Rs. 5, 14,050). 2) EMS & ES arranged two shows on wildlife. 3) Organised visit a school students to University Science Dept's, labs & must (Beneficiary more than 1500 students from various schools from all over Goa). 4) Initiated BARC spons Teacher-Scientist meet. 5) Conducted five one day workshop for school teachers (More than 150 teat from all over Goa benefited). 6) Arranged CPREE, Chennai sponsored one day field work for school teat (More than 120 teachers from all over Goa Government benefited). 7) Organised school level p competition on Environmental awareness (more than 100 students participated). 8) Organised State poster competition for school children (88 students selected from 44 school participated). 9) Condt WWF-GU joint programme on 'Youth Training Programme'. 10) Initiated to have joint programme Central Pollution Board, Ministry, Environment & Forests, National Wildlife Federation (USA) and funding agencies.

3.11 COUNSELING, CAREER GUIDANCE AND EMPLOYMENT LIAISON CI (CCGELC): Dr. Aureliano Fernandes was appointed as Hon. Co-ordinator. The Cell has organis workshop for candidates appearing for NET/SET on 8th and 9th December 2001. Thirty two candi participated. Gajanan Madiwal, Dept. of Commerce, Govt. College Pernem, R. Panda, Dept. of Mathem: Goa University and R. N. Shirsat, Dept. of Chemistry, Goa University were the Resource Persons.

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, Vaidya College of Sc. and Bandekar Comm. College, Mapusa-Goa.**
9. **Goa Vidyaprasarak Mandal's College of Commerce and Economics, Ponda-Goa.**
10. **Ponda Education Society's College of Arts and Science, Farmagudi, Ponda-Goa.**
11. **Naval Academy, I N S Mandovi, Verem-Goa.**
12. **Cuncolim Education Society's College of Arts and Commerce, Cuncolim-Goa.**
13. **Government College of Arts, Science and Commerce, Sanquelim-Goa.**

14. Goa College of Home Science, Campal, Panaji-Goa.
15. Government College of Arts, Science and Commerce, Khandola, Marcela-Goa.
16. Government College of Arts, Science and Commerce, Quepem-Goa.
17. Rosary College of Arts and Commerce, Navelim-Goa.
18. Saraswat Vidyalaya Society's College of Commerce and Mgt. 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 Brother's Educational Foundation's College of Commerce, Bicholim-Goa.
23. GSS's Don Bosco College, Panjim.

(b) Professional Colleges :

23. Goa College of Pharmacy, Panaji-Goa.
24. Govt. Engineering College, Farmagudi, Goa.
25. Nirmala Institute of Education, Altinho, Panaji-Goa.
26. Goa College of Fine Art, Altinho, Panaji-Goa.
27. Mahadeorao Salgaokar 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 College of Music, Campal, Panaji-Goa.
32. Institute of Nursing Education, Panaji-Goa.
33. Goa Vidyaprasarak Mandal's College of Education, Ponda-Goa.
34. Bhartiya Sanskriti Prabodhini's Gomantak Ayurveda Mahavidyalaya and Res. Centre, Shiroda-Goa.
35. Goa Medical College, Bambolim-Goa.
36. Shivgram Education Society's Homeopathic College and Hospital, Shiroda-Goa.
37. National Hydraugraphic School, Vasco-da-Gama.
38. Padre Conceicao College of Engineering, Vernem-Goa.
39. Devi Sharvani Education Society's Goa Institute of Mgt. Studies, Caranzalem-Goa.
40. Vidya Vikas Mandal's Institute of Management Training and Research, Margao-Goa.
41. Institute of Safety, Occupational Health & Environment, Panaji-Goa.
42. Indian Institute of Local Self Government, Panaji-Goa.
43. INS Hamala, Mumbai.
44. Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda.

(a) NON-PROFESSIONAL COLLEGES

4.1 DHEMPE COLLEGE OF ARTS & SCIENCE, PANAJI

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

K. G. Hiremath, <i>Principal</i> (Off.)	Soniya Rao, M.Sc., <i>Lecturer</i> , Chemistry
Vrinda P.S.Borkar, Ph.D., <i>Reader</i> , Chemistry	Vishwas Prabhudesai, M.Sc., <i>Lecturer</i> , Chemistry
K.G. Kamat, Ph.D., <i>Reader</i> , Chemistry	Varsha Virginkar, M.Sc., <i>Lecturer</i> , Chemistry
R. A. S.Dhume, Ph.D., <i>Reader</i> , Chemistry	P. N. Pangu, Ph.D., <i>Reader</i> , Botany
V. S. Dinge, M.Sc., <i>Lecturer</i> , Chemistry	G. I. Hukkeri, M.Sc., <i>Lecturer</i> , Botany
Leena S. Talaulikar, Ph.D., <i>Lecturer</i> , Chemistry	M. P. Prabhudesai, M.Sc., <i>Lecturer</i> , Botany
Uday S. Naik, Ph.D., <i>Lecturer</i> , Chemistry	M. K. Kelkar, M.Sc., <i>Lecturer</i> , Botany

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

- L. Talaulikar, April 2000, 'Developing organic reactions with microwave assistance in ecofriendly environment', 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).

At 13th AGM of Materials Research Society of India in February 2002 at Hyderabad presented 'Low Temperature Synthesis of Gadolinium Zirconate' by Vrinda Borkar.

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

Vrinda Borkar, (i) Symposium and workshop on Thermal analysis conducted at BARC Mumbai from Janu 21st - 25th 2002. (ii) First convention of accredited colleges — NAAC — in Chennai on October 19th 20th, 2001.

All Faculty from Dept. of Botany: Participated in National Symposium on Marine Algal Research in Indi Prospect & Retrospect — at Tiruchirapalli, Tamilnadu (National Facility of Marine Cynobacteria) Variations in composition of fouling diatoms settled on aluminium and fibre glass cumulative pan deployed during postmonsoon 2 monsoon periods at Waghtona estuary.

G. I. Hukkeri, (i) One day Career guidance workshop by Lions Club, Vasco, held at Kala Academy Novem 2001. (ii) Protect Sand Dunes' workshop attended at PES College, Ponda 28th June 2001. (iii) Orientation on Open University system organized by India Gandhi Open University on 17th February 2002.

M. P. Prabhudesai, (i) 'Protect Sand Dunes' workshop attended at PES College, Ponda 28th June 2001. (ii) seminar on women empowerment attended at Govt. College, Khandola on 5th December 2001. (iii) Orientation on Open University system organized by India Gandhi Open University on 17th February 2002.

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

Contribution to the list of fouling algae and fouling diatoms in Mandovi estuary — Goa — published in 'Understanding our nature and environment' Booklet No. 7, by WWF, Goa State Office.

4.2 SMT. PARVATIBAI CHOWGLTLE CULTURAL FOUNDATIONS COLLEGE ARTS & SCIENCE, MARGAO

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

V. R. Shirgurkar, M.A., <i>Principal</i> , Economics	S. R. Ghanti, M.Phil., <i>Lecturer</i> , Comp. Science
S. K. Naik, M.Sc., <i>Vice-Principal</i> , Chemistry	Kumaresh V.C., M.Sc., <i>Lecturer</i> , Comp. Science
R.V. Gaonkar, Ph.D., <i>Reader, Vice-Principal</i> Botany	D. Prabakaran, M.C.A., <i>Lecturer</i> , Comp. Science
R.V.Joshi, Ph.D., <i>Reader, Vice-Principal, Philosophy</i>	S. Bhat, M.C.A., <i>Lecturer</i> , Computer Science
S. N. Pai Raiturkar, M.Sc., <i>Lecturer</i> , Physics	Judith Dias Barreto, M.C.A., <i>Lecturer</i> , Comp. Sc
V.D.Date, B.Sc., <i>Demonstrator</i> , Physics	Neeta Dhupeshwarkar, M.C.A., <i>Lecturer</i> , Comp.
Vijay R. D'Costa, M.Sc., <i>Lecturer</i> , Physics	Sameena Falleiro, M.Sc., <i>Lecturer</i> , Comp.Scienci
Malati S. Desai, M.Sc., <i>Lecturer</i> , Physics	A. S. Patil, B.Sc.PGDCA., <i>Jr. Prog.</i> , Comp.Scienc
Ananya Das, Ph.D., <i>Lecturer</i> , Physics	V. S. S. Shirwaikar, B.Sc., PGDCA., <i>Jr. Prog.</i> ,
Y.P.Desai, M.Sc., <i>Lecturer</i> , Physics	G.V. K. Nagalakshmi, A.M.I.E., <i>Jr. Prog.</i> , Comp
B.V. Shirwaikar, M.Sc., <i>Lecturer</i> , Chemistry	S. R. Ingle, M.Phil., <i>Lecturer</i> , Geography S.
S. P. S. Kakodkar, M.Sc., <i>Lecturer</i> , Chemistry	M. Ambli, Ph.D., <i>Lecturer</i> , Geography N. N.
R. S. Padiyar, M.Sc., <i>Lecturer</i> , Chemistry	Sawant, M.A., <i>Lecturer</i> , Geography
N.G. Rivonkar, M.Sc., <i>Lecturer</i> , Chemistry	B. C. Pilli, M.A., <i>Lecturer</i> , Geography
A. A. Synesio, Ph.D., <i>Lecturer</i> , Chemistry	P. Antony, Ph.D., <i>Reader</i> , History
Ganpat K. Naik, Ph.D., <i>Lecturer</i> , Chemistry	Santa Naik Tani, M.A., <i>Lecturer</i> , History
Sachin Kakodkar, M.Sc., <i>Lecturer</i> , Chemistry	E.M. Travassos, Ph.D., <i>Lecturer</i> , Economics
M. J. DeSousa, M.Sc., <i>Lecturer</i> , Chemistry	D. Majumdar, M.A., <i>Lecturer</i> , Economics
N. B. Shirwaikar, M.Sc., <i>Lecturer</i> , Botany	Rupali M. Tamuly, M.A., <i>Lecturer</i> , Economics
A.V. Veeresh, Ph.D., <i>Lecturer</i> , Botany	Archana N. Kanekar, M.A., <i>Lecturer</i> , Economics
S. Sankhalkar, Ph.D., <i>Lecturer</i> , Botany	Aparajita Chatterjee, M.A., <i>Lecturer</i> , Sociology
Rajendra G. Shetye, M.Sc., <i>Lecturer</i> , Botany	Celeste Fernandes, M. A., <i>Lecturer</i> , English
M. S. Anthony, M.Sc., <i>Lecturer</i> , Zoology	Rajashree R. Desai, M. A., <i>Lecturer</i> , English
P. N. Kavri, M.Sc., <i>Lecturer</i> , Zoology	Sonia Fernandes, M.A., <i>Lecturer</i> , English
D. K. Tikare, Ph.D., <i>Lecturer</i> , Zoology	S. S. Naik, M.A., <i>Lecturer</i> , Philosophy

K. N. Mishra, M.Sc., *Lecturer*, Zoology
M. Veeresh, M.Sc., *Lecturer*, Zoology
S.M. Borges, M.Sc., *Lecturer*, Geology
M. S. Katti, M.Phil., *Lecturer*, Geology
H. S. S. Nadkarni, M.Sc., *Lecturer*, Geology
Allan Rodrigues, M.Sc., *Lecturer*, Geology
V. S. Amonkar, M.Sc., *Lecturer*, Mathematics
A. P. Masur, M.Sc., M.S., *Lecturer*, Maths.
R. D. Karapurkar, M.Sc., *Lecturer*, Maths.
Vidya De Qadros, M.Sc., *Lecturer*, Maths.
A. Barreto, M.C.A., *Lecturer*, Comp. Science
A. Adhikari, M.Tech., *Lecturer*, Comp.Science

R.V. Patil, M.A., *Lecturer*, Philosophy
Kavita A. Borkar, M. A., *Lecturer*, Philosophy
M. D. S. Borkar, M.A., *Lecturer*, French
Gunaji S. Desai, M.A., *Lecturer*, Konkani
Hanumant Chopdekar, M.A., *Lecturer*, Konkani
S. S. Adsul, M.Phil., *Lecturer*, Marathi
OrnPrakash Tripathi, Ph.D., *Lecturer*, Hindi
Lata G. Shirodkar, M.A., *Lecturer*, Hindi
M. P. Shivalli, MLISc., Ph.D., Librarian, Library
D. Bagchi, M.Phil, *Director*, Physical Education

4.2.2 Highlights of the Research Activities:

During the Period from June 2001 - May 2002, College had one U.G.C. minor research project in Chemistry. Seema Kamat registered for Ph.D. in Botany under the guidance of R.V. Gaonkar. Celeste Fernandes, **HOD of English** is working for **Ph.D.** Nandakumar N. Sawant from Geography Department submitted his thesis for Ph.D. Degree to Poona University. P.S. Antony, HOD of History is engaged in a Research Project concerning Brazil, The project is funded by the United Nation and is of One year duration.

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

S.A. Antao, "Techniques for Recycling of Plastic Waste", 29" March 2001, U.G.C.,Rs.30,000.00.

4.2.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of the Dept.).

Bhakti Kala ke Pramukh ka Punarmulyankan, 18th - 19th February 2002, U.G.C., Hindi.

(b) (i) Attended: Seminars/Conferences: (Name of the Teacher, Organising Institute, Place, Date, Title of Paper).

Omprakash Tripathi, S.P. Chowgule College, Margao, 18th - 19th February 2002, "Kabir **Kavya ke Samvedana** aur Samajik Drusti".

G.K. Naik, Shri Venkateshwara, Tirupati University, 29" - 31st August 2001, "Nitrolotriacetate precursis for synthesis of nanoparticle Mn-n ferrite".

Sangeeta Sankhalkar, Indian Science Congress, Lucknow , 3rd - 7th January 2002 "Protection against photo-oxidative damage in Sorghum seedlings".

Lata Shirodkar, S.P. Chowgule College, Margao, 18th-19th February 2002 "Sur ke Krishna aur samajik nyay", U.G.C. Seminar.

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

Celeste Fernandes, "International Interdisciplinary workshop in Canadian Studies", M. S. University Baroda Gujarat, "Regionalism in the work of Alice Munro".

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

Sangeeta Sankhalkar, "Possible function of ABA in plants against photo- oxidation by stimulating Xanthophyll Cycle in Sorghum Seedlings", International Satellite Conference on Chloroplast Development and Function, August 2001.

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

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

Razashad Shaikh, Silver medal, Power Lifting. -

Vinay Kumar Kesapuram, two Gold medals and a Bronze medal, swimming.

Mary Barbosa, Gold medal, Judo.

Gourav Amonkar, finished first in the individual category of Cycling.

Yogesh Moratgikar, represented Goa University Cricket Team, West Zone Inter University Cricket Tournament, Baroda, Gujarat.

Spencer Viegas, Shafiq Costa Pereira and Rui Cruz, represented Goa University Basketball Team in West

Zone Inter University Basket ball Tournament.

Siddhi J Naik, represented Goa State in the National Shotokan Karate Championship, Margao Goa. Kanha Prabhudesai, represented Goa State in National Diving(Aquatics) Competition.

Damodar Redkar, appointed as preliminary Coach in Cricket by SAG.

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
Sudha Chari, Ph.D., *Reader*, Philosophy
Aletthra Cynarra Vieira, M.A., *Lect.*, Phil. /Logic
Annie Fernandes, M.A., *Lecturer*, Sociology
Alice Barneto D'Cruz, M.A., *Lecturer*, English
Prema Rocha, M.A., *Lecturer*, English
Shirlene Palha, M.A., *Lecturer*, English
Sunita Fernandes, M.A., *Lecturer*, English
Jacqueline Monteiro, M.A., *Lecturer*, Economics
Ana Olimpia E Souza, M.A., *Lect.*, Economics
Tricia D.Vaz, M.A., *Lecturer*, Political Science
Cajetan Raposo, *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
Dharma Chodankar, M.A., *Lecturer*, Konkani
Celia B. Da Costa, M.A., *Lecturer*, French
Jaime Couto, M.A., *Lecturer*, Portuguese
G. R. Dukle, M.Sc., *Lecturer*, Chemistry
A. S. Timble, M.Sc., *Lecturer*, Chemistry
D. R. Natekar, M.Sc., *Lecturer*, Chemistry
Tushar S. Anvekar, M.Sc., *Lecturer*, Chemistry
Edwina R. Fernandes, M.Sc., *Lecturer*, Chem.
Kathleen Pinto, M.Sc., M.Ed., *Lecturer*, Chem.
Isabel De Noronha, M.Sc., *Lecturer*, Chemistry
Teotone Inas M.Vaz, M.Sc., *Lecturer*, Chemistry
Janesline Fernandes, M.Sc., *Lecturer*, Chemistry
Rajendra Kanekar, M. Phil., *Lecturer*, Physics
Benedict Soares, M.Sc., *Lecturer*, Physics
Dominick Nelson Lobo, M. Phil., *Led.*, Physics
Pradeep Morajkar, M.Sc., *Lecturer*, Physics
Andrew Dias, M.Sc., *Lecturer*, Physics
Manoj Salgaonkar, M.Sc., *Lecturer*, Physics
L. Matias Bosco J., M.Sc., *Lecturer*, Physics
Daryl Gonsalves, M.Sc., *Lecturer*, Electronics
V. M. Fernandes, M.Sc., *Lecturer*, Electronics
Menino Fernandes, M.Sc., *Lecturer*, Electronics
M. Elaine Rodrigues, M.Sc., *Lecturer*,
Botany Emilia Mascarenhas, M.Sc., *Lecturer*,
Botany
Maria Claudette Gomes, M.A., *Lecturer*, English
Pamela Fernandes, M.A., B.Ed., *Lecturer*, History
Sharmila Pais, M.A., *Lecturer*, History
Ruth D'Souza, M.A., *Lecturer*, Psychology
Anuradha Kakodkar, M.A., *Lecturer*, Psychology
Simao Diniz, M.A., *Lecturer*, Psychology
Ubalдина Noronha, M.A., *Lecturer*, Psychology
Janet Fernandes, M.A., *Lecturer*, Psychology
B. Mascarenhas, M.A., B.Ed., *Lecturer*, Economics
Gema Fernandes, M.A., *Lecturer*, Economics
Maria Araujo, M.Sc., *Lecturer*, Botany
Wendy Xavier, M.Sc., *Lecturer*, Botany
Sabina Sales, M.Sc., *Lecturer*, Botany
Conceicao de Souza, M.Sc., *Lecturer*, Botany
Sheila Velho Martins, M.Sc., *Lecturer*, Micro-Biology
Ursula Pinto Barreto, M.Sc., *Lecturer*, Micro-Biology
Judith D'Souza, M.Sc., *Lecturer*, Micro-Biology
Linette M. D'Souza, M.Sc., *Lecturer*, Micro-Biology
Katelyn Gonsalves, M.Sc., *Lecturer*, Micro-Biology
Soraya M. Menezes, M.Sc., *Lecturer*, Micro-Biology
Balkrishnan C. Nair, M.Sc., *Lecturer*, Mathematics
Ryan Fernandes, M.Sc., Ph.D., *Lecturer*, Mathematics
Fatima Pereira, M.Sc., *Lecturer*, Mathematics
Dattaprasad Kantak, M.Sc., *Lecturer*, Mathematics
Vamanrao Tuenkar, M.Sc., *Lecturer*, Mathematics
E. J. D'Souza, M.C.A., *Lecturer*, Comp. Science
S. J. D'Cruz Vaz, M.C.A., *Lecturer*, Comp. Science
S. Majumdar, M.C.A., *Lecturer*, Comp. Science
Parmanand Mandrekar, M.C.M., *Lecturer*, Comp. Sc.
Joan D'Mello, B.E., *Lecturer*, Comp. Science
B. Rajasekhar, M. Phil., *Lecturer*, Cost A/C & Mgt. AK
Oscar B. D'Mello, [M.Com.](#), *Lecturer*, Cost A/C & Mgt. A
M. Fernandes, [M.Com.](#), *Lecturer*, Fin. A/C, Adt. & Tax
S. L. Da Costa, [M.Com.](#), *Lecturer*, Fin. A/C, Adt. & Tax
S. Fernandes, [M.Com.](#), *Lecturer*, Fin. A/C, Adt. & Tax
Viena Raposo, [M.Com.](#), *Lecturer*, Fin. A/C, Adt. & Tax
Yasmin G. Patvekar, M. Phil., *Lecturer*, Business. Mgt.
Herwin Furtado, [M.Com.](#), *Lecturer*, Business. Mgt.
Dominic A. D'Souza, [M.Com.](#), *Lecturer*, Business. M
Carmelita D'Mello, [M.Com.](#), *Lecturer*, Business. Mgt.
D. M. Jakatti, M.A., *Lecturer*, Geography/Ecology
Snehal Goltekar, L.L.M., *Lecturer*, Business Law
Milton Fernandes, M.P.E.D., *Director*, Phy. Edn.

4.3.4 Sponsored Research Projects sanctioned during the concerned academic year: (Name of investigate Topic, Date of sanction, Funding Agency, Amount).

B. C. Nair, Higher Education and employment in the State of Goa, 23rd January 2002, UGC, Rs.46,000/-.

4.3.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Dept.).

Prospects in Industries for Science Graduates and International Certification in I.T., 28th November 2001, St. Xavier's College, Physics & Electronics Department.

Academic Leadership & Curriculum Development, 22nd - 23rd March 2002, St. Xavier's College.

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

B.C.Nair, Nehru Arts & Science College in Association with Kerala Statistical Association, Kahangad, Kerala, 23rd — 25th Jan. 2002, Statistical Techniques in Social Science Research.

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

B.C.Nair, A Study in Inter-State movement of agricultural Producers and Associated marketing Problems in Goa, Indian Journal of Agricultural Marketing, Vol. 15, No.3, September-December 2001.

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

Pai Vemekar Shridhar 1st Rank B. Corn., April 2002.

Parab Sheetal 2nd Rank B.A., April 2002.

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

Boys emerged champions in table-tennis and hockey and were runners-up in football and weightlifting;

Women's team won championships in hockey, cricket, basketball, badminton and athletics and were runners-up in football.

4.4 S S DEMPO COLLEGE OF COMMERCE & ECONOMICS, ALTINHO, PANAJI

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

S. L. Sardesai, M. A., *Principal*, Economics

M. S. Pilgaonkar, M.A., *Vice-Principal*, English

Augusto Pinto, M.Phil., *Lecturer*, English A.

P. Kamat, M.A., *Lecturer*, Economics V. R.

Naik, Ph.D., *Lecturer*, Economics

N. Varerkar, M.A., *Lecturer*, Economics P.

P.Naik Gaonkar, M.Com., *Lecturer*, Commerce D.

Rodriguese, M.Com., *Lecturer*, Commerce P.

Braganza, M.Phil., *Lecturer*, Commerce

J. Menezes, M.Com., *Lecturer*, Commerce

A. Mesquita, M.Com., *Lecturer*, Commerce

S. B. Kamat, M.Com., *Lecturer*, Commerce

K. N. Joshi, M.Sc., *Lecturer*, Maths Department

V. H. Borkar, M.Sc., *Lecturer*, Maths Dept.

C. Y. Ramani, FCA, *Lecturer*, Accountancy

A. S. Sangoram, FCA, *Lecturer*, Accountancy

K. D. Amlani, FCA, *Lecturer*, Accountancy

G. Tamba, C.A., *Lecturer*, Accountancy

S. Usgaonkar, C.A., *Lecturer*, Accountancy

J. Vinod, M.Com., *Lecturer*, Accountancy

A. N. Panvelkar, M.Com., *Lect.basis*, Account.

S. Chinderkar, M.Com., *Lect.basis*, Account.

Geeta Kulkarni, M.Com., *Lecturer*, (M.L.Period)

A. K. P.Moye, LLB, *Lecturer*, Law Dept.

G. I. Jamadar, M.A., B.P.Ed., *Ph.Director*

G. Bodke, B.E., Computer Dept.

S. Jadhav, MCM, Computer Dept.

4.4.5 Seminars/Conferences/Workshops, etc.

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

V.R.Naik, Haryana Inst. of Rural Development, Udaipur(Rajasthan)Nilokheri Govt. of Haryana, 20th - 22nd Sept.1996, 14th -15th March 2002, Govt. Plans & Policies for promotion of Tourism Industry strategies for subst. Rural Development.

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

S.L.Sardesai, National Institute of Education and Planning, New Delhi, Orientation Programmes for college Principals.

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

V.R.Naik, Economics, Doctor of Philosophy (Arts) in Economics.

4. 5 CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN, NUVEM

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

Sr. F. Mary A.C., M.Sc., *Principal*, Chemistry
Lucrecia Pereira, M.Sc., *Lecturer*, Chemistry
Cheryl Alvares, M.Sc., *Lecturer*, Chemistry
Sr. M. Madtha A.C., M.Sc., *Lecturer*, Chemistry
Fatima Fernandes, M.Sc., *Lecturer*, Chemistry
Marykutty Augusthy, M.Sc., *Lecturer*, Botany
Nirmala Mendonsa, M.Sc., *Lecturer*, Botany
Mini Vijayan, Ph.D., *Lecturer*, Botany
Sulabha Phatak, Ph.D., *Lecturer*, Botany
Meena Miranda, M.Sc., *Lecturer*, Botany
Molly Joseph, M.Sc., *Lecturer*, Zoology
Subhadra Devi Gadi, M.Phil., *Lecturer*, Zoology
Manoj Borkar, Ph.D., *Reader*, Zoology
Vinita D'Sa, M.Sc., *Lecturer*, Zoology
Maria Lizanne A.C., M.Sc., *Lecturer*, Zoology
T. Gladys Mony, M.Sc., *Lecturer*, Maths
Jessica Fernandes, M.Sc., *Lecturer*, Maths
Rajendra, M. Phil., *Lecturer*, Physics
Efrem D'Sa, M. Phil., *Lecturer*, Physics
S. R. Amonkar, M.Sc., *Lecturer*, Physics
Roxana A. Singh, M.A., *Lecturer*, English
Glenis D Souza, M.A., *Lecturer*, English
Runa D'Silva, M.A., *Lecturer*, English
Shobha Verenkar, Ph.D., *Lecturer*, Hindi
Archana Pai, M.A., *Lectur basis*, Hindi
Akalpita R. Dessai, M.A., *Lecturer*, Konkani

Queenie Viegas, M.A., *Lecturer*, Konkani
Emma Maria M.A., *Lecturer*, History
Leila Ribeiro, M.A., *Lecturer*, History
Dina D'Silva, M.A., *Lecturer*, Political Science
Lolita D'Souza, M.A., *Lecturer*, Political Science
Louise Sequeira, M.A., *Lecturer*, Political Science
K. J. Augusthy, M.A., *Lecturer*, Economics
Radhika Nayak, M.A., *Lecturer*, Economics
Glancy Borges, M.A., *Lecturer*, Economics
Nora Govil, M.A., *Lecturer*, Psychology
Aldina Braganza, M.A., *Lecturer*, Psychology
Lynette Da Silva, M. A., *Lecturer*, Psychology
Sr. M. Aradhana A.C., [M.Com.](#), *Lecturer*, Comma
Sajani D'Costa, [M.Com.](#), *Lecurer*, Commerce
Sumathi Balakrishna, M.Phil., *Lecturer*, Commerci
Gladys Monterio, [M.Com.](#), *Lecturer*, Commerce
A. Satardekar, [M.Com.](#), *Lecturer*, Commerce
Geeta Sawant, [M.Com.](#), *Lecturer*, Commerce
P. P. Singh, L.L.M., *Lecturer*, Law
Reshma Shaikh, M.A., *Lactur Basis*, Geography
O. MenezeseGama, [M.Com.](#), M.P.Ed., *Director,P.1*
Solley Thomas, M.C.A., *Lecturer*, Inf.Technology
Niziya Barboza, M. A., *Lectur Basis*, Portuguese
Maria L. Fernandes, M.A., *Lecturer Basis*, French

4.5.2 Highlights of the Research Activities:

Department of Zoology is implementing a Ministry of Environment and Forest, Government of Coordinated. Mangrove Research Programme on "Ecotourism Potential of Mangrove Swamps in Goa" period of 2 years.

4.5.4 Sponsored Research Project Sanctioned during the concerned academic year: (Name of Investigator/s, Topic, Date of sanction, Funding agency, Amount).

Manoj R. Borkar, (i) Community Knowledge of lesser known Bio-diversity of Goa with special referen Mormugao & Salcete talukas, 2001, National Biodiversity Strategy and Action Plan, New E 20,000. (ii) Lepidopteron Diversity Of Bondla Wildlife Sanctuary, Goa (Principal Investigator), 2002, University Grants Commission, Western Regional Station, UGC (WRS), Pune, 15,00C Instalment. (iii) School Environment Education Programme for Goa (SEEPG), (Prin Investigator), 2001-2002, Directorate of Education, Govt. of Goa Centre for Environmental Edna Goa, 20,000. (iv) Eco-tourism potential of Mangrove Swamps of Goa., 2002-2003, Minim Environment & Forest (M.O.E&F), Govt. of India, New Delhi, 83,000.

4.5.5 Seminars/Conferences/Workshops, etc.

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

New Horizons, 23rd - 25th July 2001, Cannel College, Carmel College.

Eco-spirituality - Rediscovering Ecology in our religion and culture, 6th- 7th December 2001, UGC, Biodiversity Research Cell, Department of Zoology.

Teachers Training Workshop for Capacity Building in Environment Education, 20th - 22nd December Centre for Environment Education, Goa, Biodiversity Research Cell, Department of Zoology.

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

Manoj R. Borkar, (i) Ministry of Environment and Forests, Govt. of India, New Delhi, INSA auditorium New Delhi, 13th to 14th June 2001, "Midterm Review of the National Bio-diversity Strategy and Action Plan (NBSAP), process in Goa". (ii) Centre for Ecological Sciences, Indian Institute of Science, Bangalore 29th August 2001, "Assessment of Western Ghats under Millennium Assessment Project : Goa as candidate state". (iii) Ministry of Environment and Forests, Govt. of India, New Delhi, Caritas Hotel Panjim, 15th October 2001, "An overview of the Bio-diversity Strategy and Action Plan (NBSAP) process with special reference to the fishing community of Goa". (iv) RSP College Jharia, Jharkhand Dhanbad, Dhanbad, 4th - 5th, November 2001, "Short term changes in the water quality of a lake following idol immersion". (v) RSP College Jharia, Jharkhand, Dhanbad, Dhanbad, 4th - 5th, November 2001, "Nest composition of the Indian house crow (*Corvus splendens* Viellot) a comparative study along the rural urban gradient in Goa". (vi) Dept. of Life Sciences & Biotechnology, University of Mumbai and Indian Society of Life Sciences, Mumbai, 20th - 22nd November 2001, "Occurrence of *Listeria* species in Sea foods of Goa". (vii) Dept. of Life Sciences & Biotechnology, University of Mumbai and Indian Society of Life Sciences, Kalina, Mumbai, 20th - 22nd November 2001, "Light and Electron microscopic observation in pituitary cells in normal and experimental animals". (viii) Dept. of Life Sciences & Biotechnology, University of Mumbai and Indian Society of Life Sciences, Kalina, Mumbai, 20th - 22nd November 2001, "Detailed investigation on the structure - Function of PRL - Cells under Tamoxifen citrate regimen". (ix) Environment Protection Club and Bio-diversity Research Cell, Carmel College for Women, Nuvem, Carmel College, Nuvem, 6th - 7th December 2001, "Rice rituals of Goa Eco theological reflections". (x) Environment Protection Club and Bio-diversity Research Cell, Carmel College for Women, Nuvem, Carmel College, Nuvem, 6th - 7th December 2001, "Crocodiles Worship A Herpeto - Ecotheological traditions of Goa's agrarian past and its contemporary eco-relevance".

Subhadra Devi Gadi, Indian Environmental Society, New Delhi, New Delhi, 6th - 10th November 2001, "Microbial quality of fish and meat in relation to food hygiene and Public health". (ii) Department of Veterinary Microbiology, Nagpur veterinary college, Maharashtra Animal & Fishery Sciences University, Nagpur, 4th - 5th February 2002, "Concepts in Sustainable Livestock Production and Health in New Millennium". (iii) Department of Veterinary Microbiology, Nagpur veterinary college, Maharashtra Animal & Fishery Sciences University, Nagpur, 4th - 5th February 2002, "Evaluation of the Microbiological quality of marine fishes of Goa region". (iv) Department of Veterinary Microbiology, Nagpur veterinary college, Maharashtra Animal & Fishery Sciences University, Nagpur, 4th - 5th February 2002, "Haematology of the domestic swine (*sus domesticus*) under coastal climatic conditions". (v) ICAR Research Complex for Goa, Old Goa., 6th - 7th April 2002, "Nutritive value of edible fin fishes of Goa".

J. B. C. Efreem D' Sa, (i) Board of Research and Nuclear Sciences, Dept. of Atomic Energy, Govt. of India, Mumbai, 26th - 30th December 2001, "Effect of Te doping in Mns; A Resistivity Study". (ii) Board of Research and Nuclear Sciences, Dept. of Atomic Energy, Govt. of India., Mumbai, 26th - 30th December 2001, "Neutron Diffraction Study of MnTe".

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

Manoj R. Borkar, (i) Association of Food Scientists and Technologists (India) (AFST), ICAR, Research Complex for Goa and Convex UNGoa, Post Harvest Technology for Agricultural Produce and Prospects for the Food Processing Industry in Konkan Region, International Centre, Goa, 23rd - 24th November 2001. (ii) CEE, Ahmedabad, World Summit on Sustainable Development (WSSD) to be held at Johannesburg for the States of Goa, Maharashtra and UTs of Daman and Diu at Goa, International Centre, Goa, 15th January 2002. (iii) Dept. of Environmental Science, Shivaji University, Kolhapur and The Faculty of life Sciences and Environment, Sustainable use of Natural Resources from the coastal areas and Western Ghats of Goa and Maharashtra, Goa University, 22nd - 23rd January 2002.

Subhadra Devi Gadi, Indian Institute of Ecology Environment Consultancy Organisation of India, Environmental Analysis including water & waste water Monitoring, New Delhi, 21st - 25th August 2001.

4.5.6 Publications: (a) Research Articles: (Name of Teacher, Title, Journal, Volume, Month/Year).
 Sulabha Phatak, (i) Ecology and Wildlife Status of Orchids, Trends in wildlife Biodiversity Conservation & Management, Volume 1. August 2001. (ii) Sulabha Phatak. Mini Vijayan and S.Christopher, Biodiversity and distribution at Bryophytes at Goa. Proceedings of the world Conference of Biologists, Volume I, May 2002.
 Mini Vijayan, Sulabha Phatak and S. Christopher, An assessment on ecology, conservation Strategies, Proceedings of the world Conference of Bryologists, Volume I, May 2002.
 S. Nayak, D. K. Upreti, Sulabha Phatak & C.Samuel, Preliminary Observations in Lichen flora of Coconut and Arecanut orchards of Goa, Achievements and Projects in Botany, Prof,Khullar Commemorative Volume, May 2002.
 Shobha Verenkar, Galee Age Mudti Hai: Katna aur Shilp, Bharatwani, Dharwar, Volume 12, March 2002.

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

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

Nunes Shienne Valerie - 3rd Rank in University Exam.

(b) Sports: Name of the Students/Team, Achievements (Medal/Place etc), Sports (Team or Individual).

Sports Activities:-

All Goa Football — Winners

All Goa Volleyball- Winners

All Goa Handball- Runnersup

All Goa Basketball - Runnersup

Juliet Miranda represented Goa in the Junior National Women's League - Under 19.

4.6 M E S COLLEGE OF ARTS & COMMERCE, ZUARINAGAR

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

D. A. Kamat, M.Sc., *Principal*, Maths & Statistics
 (From: 20/5/01)

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

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

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

Madhav Kopalli, M.A., *Lecturer*, Economics

S. Mohanti, M.A., *Lecturer*, Economics

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

Dagmai P. Da Silva, M. A., *Lecturer*, Psychology

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

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

Jessy Crasto, M.A., *Lecturer*, Sociology

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

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

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

M. L. Pednecar, [M.Com.](#), *Lecturer*, Commerce/Bus.Mgt

B.V. Kolekar, M.Phil./DFM, *Lecturer*, Commerce/Bus.Mgt

V.V. Sail, M.Phil., *Lecturer*, Commerce/Bus.Mgt

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

Sonali Thorat, [M.Com.](#), *Lecturer*, Commerce/Bus.Mgt

Savia Mendes, [M.Com.](#), *Lecturer*, Commerce/Bus.Mgt

Reshma Verlekar, [M.Com.](#), *Lecturer*, Commerce/Bus.Mgt

Prakash Pawar, ACA, *Lecturer*, Accountancy

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

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

Ashish Joshi, [M.Com.](#), *Lecturer*, Commerce

S. K. Shirodkar, [M.Com.](#), *Lecturer*, Accountancy

Ulhas Shetye, LLB, *Lecturer*, Business Law

S. Kadam, M.Sc., *Lecturer*, Comp.Awareness

Yogita D'Souza, M Sc., *Lecturer*, Maths/Statistics

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

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

Fernandes, M.Ed., *Lecturer*, Konkani

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

Borgcs, M. A., *Lecturer*, Hindi

Narendra M. Naik, M.A., *Lecturer*, Marathi

P. A. Borgave, M.P.Ed., *Sports Director*, Physical Edit.

V. S. Hazare, M. Lib. Sc., *Librarian*, Library

Gauri Manerkar, M. A., *Lecturer*, Commerce

Lalita P. Joshi, *M.B.A., Course Cordinator*, BBA

Semele Sardesai, MMS. *Lecturer*, BBA

A. Kuncolikar, B.E., *Comp.Eng., Jr. Prog.*, BCA

A. J. Kenkre, B.E., *Com.Eng.*, *Lecturer*, BCA

4.6.2 Highlights of the Research Activities:

(1) A report of the minor research project entitled, Migration, Work and Society: A study of migrant settlements in Goa, which was sanctioned by the CDI Centre (A Ford Foundation Programme) three years back to R. B. Paul and Ganesha Somayji was submitted to the College. This report was released by Sharada Nayak. Managing trustee of Educational Resource Centre, New Delhi.

4.6.4 Sponsored Research Projects sanctioned during the concerned academic year: (Name of Investigator's, Topic, Date of sanction, Funding Agency, Amount).

Rekha Gaonkar, M.C. Rodrigues, R. B. Path, Fishing in Goa: An Interdisciplinary study of its Socio-Economic and Political Aspects, 7th March 2002, U.G.C., Rs. 2,57,560.00/.

**4.6.5 Seminars/Conferences/Workshops, etc.
(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Department).**

R. B. Patil, (i) Guru Nanak Dev University, Amritsar—Punjab, 26th - 28th December 2001, Anit-Meta Strips Movement: A Struggle for Environment Protection. (ii) National Convention of Accredited Institutions, Chennai, 19th - 20th October 2001, Quality Assurance & Sustenance in Higher Education.

Rekha Gaonkar, (i) Carmel College for Women, Nuvem, Margao, 6th - 7th December 2001, Hinduism & Ecology: Eco-Spirituality . (ii) Gulbarga University, Gulbarga, 27th - 29th December 2001, Working & Impact of Self-Help Groups in Goa.

B. V. Kolekar, S.V. University, Tirupati (AP), 13th - 14th September 2001, Segment Reporting.

V. V. Sail, S.V. University, Tirupati (AP), 13th - 14th September 2001, Securitisation: A Financial Instrument in value creation.

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

Rekha Gaonkar, Women in the Emerging Labour Market: Issue Ahead, Women, Work Participation and Empowerment: Problems & Prospects, RBSA Publishers, October 2001.

4.6.8(b) Ph.D. degree conferred during the year: (Name of Candidate, Subject, Title of the Thesis).

Sandhya Bhandare, English, The Plays of James Reaney & Pundalik Naik — A Comparative Study.

4.6.9 Achievements: (Ranks/Merits in the University Examinations/Sports activities).

(a) Ranks/Merits:

Ancy Fernandes - 3rd Rank in Goa University Examination, T.Y.B.Com.—April 2002.

(c) Sports Activities: (Name of the Students/Team, Achievements(Medal/Place etc.), Sports(Team or Individual)).

Roystan Rodrigues bagged Runners-up position at the Goa University Inter-Collegiate-Table Tennis Championship.

Sweta Khadapkar secured runners up position at the Goa University Inter-Collegiate Table Tennis Tournament.

Bhavin Thakker bagged runners up position at the Goa University Inter-Collegiate Badminton Tournament.

Vishwanth V. Reddy bagged Silver Medal in Wt.

Lifting Championship at the Goa University Wt. Lifting Championship.

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

I.Bhanu Murthy, Ph.D., *Principal*, Commerce
U.N. Pualapaka, [M.Com.](#), *Lecturer*, Commerce N.
Gopinathan, M.Phil., *Lecturer*, Commerce S. Bhat,
[M.Com.](#), *Lecturer*, Commerce Leena Sadekar,
[M.Com.](#), *Lecturer*, Commerce Shami R. Pai,
[M.Com.](#), *Lecturer*, Commerce Anjali Sajilal,
[M.Com.](#), *Lecturer*, Commerce S. P. S. Dessai,
[M.Com.](#), *Lecturer*, Commerce S. G. Prabhudesai,
M.Phil., *Lecturer*, Commerce Manoj Kamat,
[M.Com.](#), *Lecturer*, Commerce Edwin Barreto,
[M.Com.](#), *Lecturer*, Commerce Rodney D'Silva,
M.M.S., *Lecturer*, Commerce & Mgmt. R. Lotlikar,
[M.Com.](#), *Lect.basis*, Commerce & Mgmt. Jyoti Ghadi,
[M.Com.](#), *Lectur basis*, Comm. & Mgmt.
J. M. Rebello, M.A., *Lecturer*, English
Florence Rebello, M.A., *Lecturer*, English
M. E. Abranches, M.Sc., *Lecturer*, Maths & Statistics
V.G. Patil, M.Sc., *Lecturer*, Maths & Statistics
- Nutan Nayak, M.Sc., *Lecturer*, Maths & Statistics
G. G. Kondli, M.A., *Lecturer*, Economics
L. Menon, M.A., *Lecturer*, Economics
Lira Menezes Gama, M.A., *Lecturer*, Economics
B. P. S. Chandran, M.Phil., *Lecturer*, Economics
Branda Rodrigues, M.A., *Lecturer*, Economics
P.D. Mallya, M.Phil., *Lecturer*, Economics
Sandra Gomes, M.A., *Lecture Basis*, Economics
Sharmila Kunde, B.E., *Lecturer*, Infotech. P.
P. Singh, LL.M., *Lecturer*, Business Law
M. A. Redkar, LL.M., *Lecturer*, Business Law
Prachi Kamat, M.A., *Lecture Basis*, Geography
Sudhakar Naik, B.P.Ed., *Director*, Sports
Dimpal Paul, M.C.A., *Lecturer*, Computer Science

K. G. Desai, M.C.A., *Lecturer*, Computer Science
Sunil Naik, M.Sc., *Lecturer*, Computer Science
Deepa Pujari, B.E., *Instructor*, Computer Science
D. Nagvenkar, [B.Com.](#), PGDCA, *Compinstructor*
Praveen Volvotkar, B. E.(Comp), *Lecturer*
Jitin Gopinath, M.C.A., *Lecturer*, Computer Science

N. M. Sabnis, B. E., *Lecturer*, Computer Sci
Pooja Prabliudesai, [M.Com.](#), *Lecture Basis*,
R. Mellon, [M.Com.](#), ICWA, *Lecture Basis*
Monica Pali!, M.A., *Lecture Basis*
Jessica Fernhandes, M.Sc., *Lecture Basis*

4.7.9 Acheivements: (Ranks/Merits in the University Examinations/Sports Activities).

Dos Reis Falcao Simone Maria, Rank, University Exam. (B.C.A).

Tangirala Harsha Rao, 2nd Rank, University Exam. (B.C.A).

Shetgaunkar Priyadarshani P., 3rd Rank, University Exam. (B.C.A).

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

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

D. B. Arolkar, Ph.D., *Principal*, Geology
X. P. D'Souza, M.A., *Lecturer*, Economics
Diwan S.A., M.Sc., *Lecturer*, Statistics
Jacob Varkey, LL.M., M.Ed., *Lecturer*, History
S. H. Kulkarni, M.Phil., *Lecturer*, Commerce
D'Lima E. Joaquim, M.Phil., *Lecturer*, English
Dharwadkar S. B., M.Phil., *Lecturer*, Geography
T. Recna Devi, [M.Com.](#), *Lecturer*, Commerce
S. D. Patil, [M.Com.](#), *Lecturer*, Commerce
M. R. Patil, Ph.D., *Lect.*, Commerce
Dukle Rita Vasudev, C.A., *Lecturer*, Account
A. Haladi, M.A., *Lecturer*, Economics
Karapurkar S. B., MCA, *Lecturer*, Comp.System
Nair Shaila, MCA, *Lecturer*, Comp.System
P.Talpankar, [M.Com.](#), *Lecturer*, Commerce
Redkar R.R., [M.Com.](#), *Lecturer*, Commerce
Shanti M., M.A., B.Ed., *Lecturer*, English
Dessai Vidya G., M.Sc., *Lecturer*, Chemistry
Raikar Sunoj Prakash, M.Sc., *Lecturer*, Electronics
Patil Sameer Manohar, M.Sc., *Lecturer*, Electronics
Kunkolienkar Smita, M.Sc., *Lecturer*, Maths
Morajkar Somnath P., [M.Com.](#), *Lecturer*, Accounts

Shaikh Parvez Mohammed, M.Sc., *Lecturer*, I
Prashant V.Kadam, M.A., *Lecturer*, Economil
Pednekar Rajesh M., M.Sc., *Lecturer*, Chemis
Varekar Manguesh V., M.A., *Lecturer*, Histo
Abhyankar Girish G., B.E., GATE, *Lecturer*,
Natekar Varsha, M.Sc., *Lecturer*, Chemistry
Kanekar Rcema, M.A., *Lecturer*, English
Rane Udaysing, M.Sc., *Lecturer*, Computer SI
Sirsat P. R., M.Corn., *Lecturer*, Accountancy
S. F. Shirodkar, [M.Com.](#), *Lecturer*, Commero
Mascarenhas A., M.PED., Director, Phys.F,dn
Pawar P. P., FCA, *Lecturer*, Accountancy
Dhaujekar Goving T., LL.B., *Lecturer*, Law
Joshi Damodar V., FCA, *Lecturer*, Accountan
Kamat Sham J., FCA, *Lecturer*, Accountancy
Arolkar Suchita P., M.Phil., *Lecturer*, Maths
Pednekar Achut, M.Coni., *Lecturer*, Commerc
Sawant Shekhar V., [M.Com.](#), *Lecturer*, Accou
Pradnya Bhide, M.Sc., *Lecturer*, Computer Sc
Aparna Naik, M.Sc., *Lecturer*, Economics

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

(a) Academic: (Name of Students, Achievement(i.e.Ranks etc.), Examination).

Result of Science faculty for April 2002 Examination was 100% with 3 distinctions and 18 first classes. A faculty secured 2 first classes with 40.47% and T.Y.B.Com. Results were 85.20% with I distinction and I: classes.

(b) Sports: (Name of Student/Team, Achievements: (Medals / Place etc.), Sports (Te; Individual).

Goa University Athletic Championship 2001-2002, winner's of championship and March Past Trophy
University. Powerlifting championship 2001-2002, runners-up.

Goa State Tennis Cricket Tournament 2001-2002, Runners-up.

Students representative Goa University at the Inter-University tournament as well as State at the National members. They won 7th Position in Air Pistol & 10th Position in Air Riffle.

4.9 GVM'S 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	Namita Kamat, M.Sc., <i>Lecturer</i> , Comp. Science
P. G. Dandin, <u>M.Com.</u> , <i>Lecturer</i> , Commerce	G. A. Borkar, M.Phil., <i>Lecturer</i> , Economics
Meera Mayekar, <u>M.Com.</u> , <i>Lecturer</i> , Commerce	M. M.Chikodikar, M.A., <i>Lecturer</i> , Economics
Smita Sanzgiri, M.Phil., <i>Lecturer</i> , Commerce	Geetanjali Urankar, M.A., <i>Lecturer</i> , Economics
Latha Bhat, <u>M.Com.</u> , <i>Lecturer</i> , Commerce	S. S. Pereira, M.Phil., <i>Lecturer</i> , English
Anushree Bhandari, M.Phil., <i>Lecturer</i> , Commerce	R. G. Bhatt, M.Phil., <i>Lecturer</i> , English
Prabhakar Rane, M.Phil., <i>Lecturer</i> , Commerce	S. L. Singbal, F.C.A., <i>Part-time Lecturer</i> , Accountancy
Raina Pinto, <u>M.Com.</u> , <i>Lecturer</i> , Commerce	S. B. Dessai, F.C.A., <i>Part-time Lecturer</i> , Accountancy
Vedita Vernekar, <u>M.Com.</u> , <i>Lecturer</i> , Commerce	S. P. Bhat, F.C.A., <i>Part-time Lecturer</i> , Accountancy
Sarvesha Bhandari, <u>M.Com.</u> , <i>Lecturer</i> , Commerce	G.V. Khandeparkar, LL.B., <i>Part-time Lecturer</i> , Bus.Law
C. N. Phadte, M.Phil., <i>Lecturer</i> , Maths/Statistics	P. N. Maske, Ph.D., <i>Lecturer</i> , Politics
Ana Falleiro, M.Phil., <i>Lecturer</i> , Maths/Statistics	Betty D'Silva, M.P.Ed., <i>Director</i> , Physical Edn.
M. Fernandez, M.Sc., <i>Lecture Basis</i> , Geography	
Vinaya Gaonkar, M.Sc., <i>Lecturer</i> , Comp. Science	

4.9.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Date, Funding Agency, Name of Dept.)

One day faculty Improvement Programme/workshop was organised for the staff members on 22nd March 2002, Aatish Hotel from 9.00 am to 5.00 pm. The Resource papers were invited to conduct various sessions as follows:

- Staff motivation and student motivation.
- Skillful communication in class room environment.
- Assessment of teachers by students.
- Effective teaching.

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

P. N. Maske (i) Presented a paper on 'Good Governance - Political parties in Goa' at Dept. of Political Science, Goa University on 21st April 2001. (ii) Presented a paper on 'Marathi-a political question and historical & legal facts at two days State level seminar organised by Gomant Marathi Academy on 29th March 2001.

Geetanjali Urankar & Vedita Pai Vernekar, participated in Personality Development/Value education workshop, organised by College Development Council, Goa University from 29th- 31st October 2001.

Meera Mayekar and Sarvesha Bhandari, participated in One day State level seminar on 'Women's Empowerment - A salute to Womanhood' organised by S.S.Dempo College, Panaji, 27th November 2001.

G. A. Borkar, Raina Pinto and Vedita Pai Vernekar participated in one day state level seminar on 'Women empowerment in the constitutional context', organised by Govt. College, Khandola, on 5th December 2001.

Ana Falleiro & G.A.Borkar, participated in the State Level seminar on 'Eco-spirituality - Rediscovering Ecology in our Religion and culture', organised by Carmel College, Nuvem, 6th and 7th December 2001.

O. A. Borkar presented a paper on 'Rain Water Harvesting' in the said seminar.

P. N. Maske delivered a talk on 'Political Empowerment of Women' at Awareness Generation camp for celebration of Women's Empowerment year 2001, Directorate of Women and Child Development, Goa, on 13th December 2001.

G. A. Borkar, M.M.Chikodikar & Geetanjali Urankar, attended State Level seminar on 'Current Fiscal issues with special reference to Public expenditure', organised by Govt. College, Khandola, 22nd February 2002, M. M. Chikodikar and Geetanjali Urankar, presented a paper.

P. G. Dandin & P.U.Rane, attended two days State Level seminar on 'Impact of International Terrorism on Goa's Economy' organised by Govt. College, Sanquelim, 7th - 8th March 2002.

G. A. Borkar, attended seminar on 'College Students' Council and its prospects during the 21st century, Directorate of Students' Welfare, Goa University on 9th March 2002.

P. M. Bhende, Anna Falleiro & Meera Mayekar, attended one day workshop on 'Self Esteem & Moti' organised by Govt. College, Khandola, 23rd March 2002.

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

P. M. Bhende, participated in Fourth National Conference at Kanyakumari from 21' - 22" January 20 India College Principal's Association.

R. G. Bhat, participated in Two day Orientation Programme to Open University system organised by I Registered Centre, Bangalore on 8th - 9th February 2002.

P. U. Rane, participated in the National Integration camp, Gujarat Ayurved University, Jamnagar 10' September 2002, Lakuish Yoga Institute, Kayava-Rohan and Gujarat.

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

(a) Academic: (Name of Students, Achievement(i.e.Ranks etc.), Examination).

Nayak Ashwini K., Talaulikar Sneha, Kulkarni Radhika, Secured distinction, T.Y.B.Com.(Exam.)

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

Chess Team, Runners-up Trophy, Goa University.

Rahul Desai, First Place Goa university, Judo Tournament.

Kho Kho(Men) Team, Runner-up Trophy, Goa University.

4.9.10 Any other information:

(c)Any other special Achivement by Students/Staff

Raina Pinto passed Net Exam,(UGC).

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

P. R. Hcde, Ph.D., *Vice-Principal*, Political Science

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

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

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

Mandakini V. Rane, 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

V. J. Pissurlekar. M.Sc., *Lecturer*, Chemistry

Anita Tilve Manckar, Ph.D., *Lecturer*, Chemistry

Vircndra S. Dangui, M.Sc., *Lecturer*, Chemistry

Brenda F. Dias Barreto, M.Sc., *Lecturer*, Chemistry

Harsha Uskaikar, M.Sc., *Lecturer*, Chemistry

Seema V. Kamat, M.Sc., *Lecturer*, Botany

Kasturi N. Desai, M.Sc., *Lecturer*, Botany

P. Bhattacharya, M.Sc., *Lecturer*, Botany

Ranjita P. Prabhugaonkar, M.Sc., *Lecturer*, Botany

Lynette Fernandes, M.Sc., *Lecturer*, Botany

B. Halarnekar, M.Sc., *Lecturer*, Botany

Susan Marcos, M.Sc., *Lecturer*, Zoology

A.V. Deshpande, Ph.D., *Lecturer*, Zoology

S. H. Bhosale, Ph.D., *Lecturer*, Zoology

G. P. P. Khanolkar, M.Sc., *Lecturer*, Zoology

D. K. Prabhu, M.Sc., *Lecturer*, Zoology

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

Deepa C. Fernandes, M.Sc., *Lecturer*, Zoology

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

C. F. E. Fernandes, M.Sc., *Lecturer*, Microbiol(4

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

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

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

Jasmine Curian, M.A., *Lecturer*, English

A. V. Bhandiwad, M.Phil., *Lecturer*, Economics

J. G. R. Monteiro, M.A., *Lecturer*, Economics

K. R. Kunkolicnkar, 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

Badruddin, Ph.D., *Lecturer*, Pol. Science

V. V. Prabhudesai, Ph.D., *Lecturer*, Marathi

Deepak R.Chatre, M.A., *Lecturer*, Marathi

Sandeep Lotlikar, M.A., *Lecturer*, Hindi

Uma Priolkar, M.A., *Lecturer*, Hindi

D. M. Desai, M.P.Ed., *Director*, Physical Edn.

Bhushan V. Bhave, M.A., *Lecturer*, **Konkani**

Manoj N. Karnat, M.A., *Lecturer*, Konkani

F. Maria Noronha, **M.A., Lecturer**, Psychology

Priya U. Sabnis, M.A., *Lecturer*, Psychology.

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

Seema V. Kamat, Algal Biodiversity from the Wetlands of Goa, 1 s' November 2001, U.G.C., Rs.30,000/-.

4.10.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Date, Funding Agency, Name of Dept.).

Review of Restructured Courses at U.G. Level and modifications, Changes etc., 21 March 2002, P.E.S.College.

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

Badruddin, (i) St. Xavier's College, Mumbai University, 5th 6th October 2001, Electoral Reforms. (ii) -Department of Political Science, Goa University, 20th April 2002, Impact of Global Terrorism on Goa Tourism.

4.10.6 Publications: (a) Research Articles: (Name, Title, Journal, Volume, Month / Year).

Badruddin, Democracy in Goa: A State of Coalition Politics, Indian Journal of Politics, Vol. 35, Nos.3 - 4, July-December, 2001.

4.10.10 Any other Information:

(b) Sports Activities: (Name of students/ Team, Achievements (Medals / Place etc.), Sports (Team or individual)).

Manisha Talaulikar - TYBA and Neeta Pednekar- SYBA got 1st prize in All Goa Inter-Collegiate Quiz Competition on Indian Constitution and Government organised by the department of Political Science, Goa University, 4th December 2001.

4.11 NAVAL ACADEMY, INS MANDOVI, VEREM

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

Cdr NVS Raju, M.Sc., *Principal*

Lt Cdr A.Khemani, BE (Mech.), *Hd. of Faculty, Physics*

Lt Poonam Pant, M.Sc., *Education Officer, Physics*

Lt Kavitha M., BE (Mech.), *Education Officer, Physics*

Lt Reena Magdalene, BE (Mech.), *Ed. Officer, Physics*

Lt Nidhi Sharma, M.Sc., *Education Officer, Physics*

Lt Cdr M. Anand, M.Phil., *Head of Faculty, Maths*

Lt Cdr P J Singh, M.Sc., *Education Officer, Maths*

Lt Monica Pande, M.Sc., *Education Officer, Maths*

Lt S. S. Pal, BE, *Head of Faculty, Infor. Technology*

Lt Cdr A. Kumar, M.Sc., *Hd. of Faculty, OCE & ME'*

Lt Shruti Dhawan, M.Sc., *Head of Faculty, Chemistry*

Tamal Guha, M. A., *Head of Faculty, English*

4.11.10 Any other Information:

(c) Sports Activities: (Name of students/ Team, Achievements (Medals/Place etc.) Sports (Team or individual)).

Goa University cross country championship.

(c) Any other special achievement by student/staff.

New Laboratories: Computer aided instructions: All Classes are fitted with the over head projectors and white boards. Apart from this all important lessons needing visualization of the theoretical concepts have been developed as CAI/CBT packages, mostly in house. Special classes are planned in the infotech learning centre, where the computer aided teaching is being imparted with the help of video projection system.

4.12 C E S COLLEGE OF ARTS & COMMERCE, CUNCOLIM

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

L.G. Naik, [M.Com.](#), LL.B., *Actg. Principal,*

Commerce S. S. Nadkarni, M.Phil., *Lecturer,*

Accountancy

A. Rodrigues, [M.Com.](#), *Lecturer, Accountancy*

Apoorva A. Marathe, M.A., *Lecturer, Economics*

Avinash V. Raikar, M.A., *Lecturer, Economics*

S. V. Katageri, M.A., *Lecturer, Political Science*

T. M. N. Gaunekar, M.A., *Lecturer, Political Science*

Anand S. Dessai, M.Sc., *Lecturer*, Mathematics
 C. R. S. Sancordenkar, M.A., *Lecturer*, Hindi P.
 R. Morakar, M.Phil., *Lecturer*, Geography
 Bhanumati C. Pith, M.A., *Lecture-basis*, Geography
 M. F. Monteiro, M.Phil., *Lecturer*, English
 Sushama S. Salokhe, M.A., *Lecture-basis*, Marathi
 Nityanand B. Naik, M.A., *Lecture-basis*, Konkani

Ajay G. N. Desai, LL.B., *Lecturer*, Business
 Sharon D'Cruz, MA., *Lecturer*, History
 R. S. Vernekar, M.P.Ed., *Director*, Physical I
 Gaus Khan Usman Khan, M.Lib.I.Sc., *Libra*,
 Sucorina E D'Cunha, M.A., *Lecturer, Sociot*

4.12.9 Achievements: (Ranks/Merits in the University examinations/Sports activities).

(b) Sports Activities:

I. Runners up position in Inter-Collegiate Kho-Kho events (Women).

2. Two Gold Medals for Weight Lifting and Power Lifting in individual category.
3. Runners up position in Kabbaddi (Men) in Inter-Collegiate Tournament organised by Goa Unil
4. Gold Medal/winners position in Inter-Collegiate Kho-Kho (Men) Tournament organised by Ge University.

4.13 GOVERNMENT COLLEGE OF ARTS, SCIENCE & COMMERCE, SANG

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

B. A. Gomes, Ph.D., *Principal*, Economics
 Gervasio Mendes, M.A., *Sr.Lecturer*, Economics
 Agnela Dias, M.A., *Lecturer*, Economics
 Shilpa Satoskar, M.A., *Lecturer*, Economics
 P. N. Thomas, M.Sc., *Sr. Lecturer*, Botany
 R. K. Tan, M.Sc., *Sr.Lecturer*, Botany
 J. P. P. Pacheco, M.Sc., *Sr. Lecturer*, Chemistry
 A. Chodankar, M.Sc., *Sr. Lecturer*, Chemistry
 J. Bhattacharjee, Ph.D., *Sr.Lecturer*, Chemistry
 Varsha Sail, M.Sc., *Lecturer*, Chemistry
 Jyoti Sawant, M.Sc., *Lecturer*, Chemistry
 Chandrashekhar Rao, M.Com., *Lecturer*, Commerce
 M. B. Gosarwadkar, M.Com., *SrLecturer*, Corn.
 R. Divakar, M.Com., *Lecturer*, Commerce
 Vanita Patil, M.Com., *Lecturer*, Commerce
 Manda Parab, M.Com., *Lecturer*, Commerce
 Prashant Bhonsle, M.Com.M.A., *Lect.* Commerce
 Nilesh Natekar, B.E., *Lecturer*, Comp. Science
 Avinash Patil, B.E., *Lecturer*, Computer Science
 Shubha Kamat, B.E., *Lecturer*, Comp. Science
 Lucy James, M.A., *Sr. Lecturer. English*

S. Jamkhandi, M.A., *Lecturer*, English
 K. R. Badiger. Ph.D., *Sr.Lecturer*, Geography
 Josephine Dias, M.A., *Lecturer. Geography*
 D. B. Arolkar, Ph.D.. *Sr. Lecturer*, Geology
 Anil Karambelkar, M.Sc., *Sr. Lecturer, Geolo.*
 S. A. Joshi, Ph.D., *Sr.Lecturer*, Hindi
 Sneha Mahambre, M.Phil., *Sr. Lecturer*, Mara
 Sunita Kanekar, M.A., *Sr.Lecturer*, Konkani
 D. G. Bandiwadkar, M.Sc., *Vice-Principal. MI*
 Santosh George, Ph.D., *Lecturer*, Mathemaic5
 Norma Rebel lo, Ph.D., *Sr.Lecturer. Ph i losoph:*
 N. B. Bhat, M.Phil, *Sr. Lecturer*, Physics
 S. Jahagirdar, M.Phil, *SrLecturer*, Physics
 Maliendra Pednekar, M.Sc., *Lecturer*, Physics
 Aga D.A. M.Phil. *Lecturer*, Physics
 Sayed A. S. M., M.Phil. *SrLecturer. Political*
 Sowinini Thomas, M.Sc.. *Sr. Leçültet*, Zoolog
 K. S. Muralidhar, Ph.D.. *Sr. Lecturer*, Zoology
 Preehi Pednekar, M.Sc.. *Lecturer. Zoology*
 Vaibhav Chindarkar. M.Sc., *Lecturer, ZAxjlogy*
 K. K. Bahle. M.P.Ed.. *Director. Pliy. Ethical io*

4.13.2 Highlights of the Research Activities.

P. N. Thomas, **working on a UGC sponsored Minor Research Project on "Plant Biodiversity of San Goa".**

Research Paper Published/Communicated Santosh George, *Lecturer in Mathematics & M.T.Nair*, "An (order) Yielding Discrepancy Principle for Simplified Regularization of III-Posted Problems in Hilbert Sca J. P. P.Pacheco, Senior *Lecturer* in Economics, submitted the thesis titled "A Socio-Economic Anal Mining Industry- A Case Study of Bicholim Taluka in Goa", for the award of Mining Industry — A Cast of Bicholim Taluka in Goa", for the award of Doctorate Degree to. the Department of Analytical and / Economics, Utkal University, Bhubaneshawar, Orissa.

4.13.5 Seminars/Conference/Workshops, etc.

(a) Organised :(Title /Theme, Dates, Funding agencies if any, Name of Department).

International Terrorism & Its Impact on Goa's Economy', 7th - 5 March, 2002,UGC (in past), Commerci Economics Depts.

Industrial Chemistry, 18th - 19th August,- 2001, Some Sponsorships from Chemical Dealers, Chemistry DI

Annual Convention of IAPT-2001, 6th - 7th October 2001, IAPT (in part) Physics Dept.
IV Yuva Konkani Sahitya Sanunelan, 15th - 16th December 2001, UGC, Goa Konkani Academy &
Sponsorships from as other Agencies, Konkani Dept. in collaboration with Goa Konkani Academy.
Workshop for Teachers of Economics, 17th March 2002, Economics Dept.

(b) (i) Attended: Seminars/Conferences: (Name of Teacher, Name of Organising Institute, Place, Dates, Title of Paper).

M. B. Ghosarwadkar, Dr. Babasaheb Ambedkar Marathwada, University, Aurangabad, Maharashtra, 15th - 16th March, 2002, Globalisation & Swadeshi Philosophy.

G. S. F. L. Mandes & Agnela Dias, Govt. College, Sanquelim, 7th - 8th March 2002, Impact of International Terrorism on Goa's Tourism Sector — A Case Study of Cavelossim.

Sneha Mahmbre, Goa Marathi Sahitya Academy, Quepem- Goa, 10th October 2001, "Marathi Bhasha: Sthiti ani Gati"

Sanjay Jahgirdar, International School of Photonics, Cochin, 7th - 22nd January 2002, -New Materials for Optoelectronics Devices & Their Important Properties.

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

P. N. Thomas & R.K. Tari, "Kokam" Garcinia indica, Vengurla, Maharashtra.

M. B. Ghosarwadkar, Globalisation & its Impact on Indian Economy, Aurangabad, Maharashtra, Global isation & Swadeshi Philosophy.

B.A.Gomes, (i) S. S. Dempo College of Commerce & Economics Panjim, 17th February 2001, Commerce Education. (ii) Govt. College, Sanquelim, 6th-7th October 2001, The Status of Physics Higher Education in Goa. (iii) Govt. College, Sanquelim, 7th-8th March 2002, Key-note address and presentation at the State Level Seminar on "International Terrorism & its impact on Goa's Economy". (iv) Goa University, 30 July 2002, "Export of Higher Education". (v) Govt. College, Khandola, 22nd February 2002, State level Seminar on "Current Fiscal issues with Special reference to Public Expenditure". (vi) Dept. of Political Science, Goa University & Konard Adenauer Foundation, New Delhi, Hotel Mandovi, Panaji, 30th March 2002, Seminar on Profiling Federalism India & Germany.

4.13.8 (b) Ph.D. Degree conferred during the year: (Name of Candidate, Subject, Title of the Thesis).
J. P. P. Pacheco, Chemistry, Stability studies of Metal Nitrilotriacetate Complexes and its application in the Electroless deposition of Fe-Ni alloys.

4.13.9 Achievements (Ranks/Merits in the University examination /Sports activities).

(a) Ranks:

Divyesh Hasumukh secured First Rank at the T.Y.B.Sc. (Computer Science) Examinations April 2002.

(b) Sports:

- (1) The College Men's & Women's Kabaddi Teams emerged Champions at the Inter-Collegiate Kabaddi Tournament Organised by Goa University.
- (2) The College Men's & Women's Judo Teams secured Championship at Inter Collegiate Judo Competitions organised by Goa University. The College secured 3 Gold, 3 Silver & 3 Bronze Medals in the Competitions.
- (3) The College has secured 2 Gold, 2 Silver & 3 Bronze Medals at the Inter-Collegiate Athletic meet organised by Goa University.
- (4) The College has secured 2 Gold & 1 Silver Medal at the State level Athletic meet organised by Goa Amateur Athletic Association on 30th September - 1st October 2001.
- (5) Nitin Ghadi from F.Y.B.Com. A. Class represented Goa at the West Zone Inter-University Cricket Tournament held at Vadodra.
- (6) Sandesh Barazankar from T.Y.B.Com. participated in the All India Judo Competition held at Gwallior.
- (7) Sagar Karbotkar from T.Y.B.Com. participated in South Zone (Ramchandrarao Trophy, under 22) Cricket Match held in Goa from 4th - 1st November 2001.

4.13.10 Any other information:

(b) The College was accredited with THREE STARS by NAAC.

(c) Fellowship/Visiting Professorship, etc.

Purnakala Samant, has been awarded a two years Post-Doctoral Research Fellowship in Chemistry by the University of Porto in Portugal from January 2002.

4.14 GOA COLLEGE OF HOME SCIENCE, PANAJI.

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

Daisy John, M.Sc., *Off Principal*
Rita Godinho, M.Sc., *Lecturer*
Charlotte Facho, M.Sc., *Lecturer*

Rajal Shinkre, M.Sc., *Lecturer*
Ranju Kunkalikar, M.Sc., *Lecturer*

4.14.2 Highlights of the Research Activities:

Daisy John, Research Thesis 'Knowledge, Skills and other Benefits acquired by the Participants of DWCA Programme in Thiruvanthapuram District' submitted at GRI, Gandhigram.

4.15 GOVT. COLLEGE OF ARTS, SCIENCE & COMMERCE, IMANDOLA

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

M. M. Sangodkar, Ph.D., *Principal*
Anita S. Kumar, M.A., *Sr.Lecturer*, English
Isabel Dennis, Ph.D., *SrLecturer*, English
Seema P.Rath, M.A., *St:Lecturer*, Economics
Cristina D'Souza, M.A., *SrLecturer*, Economics
Prabir Kumar Rath, Ph.D., *Sr.Lecturer*, Geography
Pravina Kerkar, M.A., *Lecturer*, Geography
Asha B.Gahloth, M.A., *Lecturer*, Hindi
Usha P.Bhende, Ph.D., *Sr.Lecturer*, History
Sunetra P. Kalanguticar, M.A., *Lecturer*, Marathi
Prakash Vazrikar, M.A., *Lecturer*, Konkani
Mahesh Pai, M.A., *SrLecturer*, Psychology
Jivexa Bhattacharjee, Ph.D., *SrLecturer*, Chemistry
S. M.Gurav, Ph.D., *Sr.Lecturer*, Chemistry
Jennifer Almeida, M.Sc., *Lecturer*, Chemistry

Fatima D'Souza, [M.Com.](#), *SrLecturer*, Commerce
S.V. Sulchthankar, [M.Com.](#), *SrLecturer*, Comma(
Nilesh Borde, [M.com.](#), *Lecturer*, Commerce
T. S. Dey, Ph.D., *Sr.Lect. ,Director*, Physical Edri,
Jaison Joseph, M.Sc., *Sr.Lecturer*, Physics
Prashant Chodankar, M.Sc., *SrLecturer*, Physics
Lucas Miranda, M.Phil., *Sr.Lecturer*, Maths
Varada A. Kalas, M.Phil., *Lecturer, Maths*
Dilecta D'Costa, *M.Sc., Lecturer*, Microbiology
Marina Albuquerque, M.Sc., *Lecturer*, Microbiolo
Manisha Sajane, B.E., *Lecturer*, Comp. Science
Sujata Gaonkar, B.C.A., *Lecturer, Conrip.Science*
Rajashree Joshi, B.E., *Lecturer*, Comp.Science
Anita Raicar, M.Sc., *Lecturer*, Comp. Science
Ana Fernandes, B.E., *Lecturer*, Comp.Science

4.15.2 Highlights of the Research Activities:

Updating of research work on "Power sector of development in Goa" and Financing of education with reference to Goa by Seema P. Rath.

Updating of research activity "Development of Goa" and Environmental issue in Goa by Prabir K. Rath
Bhende took up a project in History on development and evolution of society in southern konkan with part reference to Goa involving a study of migration into this region subsistence patterns in early societies etc.
Lucas Miranda is continuing Ph.D.work on knot theory under A.T. Jayanthan, *Reader*, Dept. of Maths University.

4.15.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Department).

Current fiscal issues with special reference to public expenditure, 22nd February 2002, Govt. College Khan(' Dept. of Economics.

Women empowerment in the constitutional context, 5th December 2001, Directorate of Higher Education, I College Khandola.

Leadership camp for the new generation, 1 - 1st September 2002, in association with Rotary club, Panaji, Students Council Govt. College, Khandola.

Self esteem & motivation, 23rd March 2002, Dept. of Psychology.

Stock Market & Management, August 2001, Commerce Association, Dept. of Commerce.

(b) (i) Attended : Seminars/Conferences: (Teacher, Name of Organising Institute, Place, Date, Title of Paper).

Seema P. Rath, State Level Seminar Govt. College Khandola, Khandola, 22nd February 2002, Public expenditure and subsidy or Higher Education.

Prabir K. Rath, (i) National Seminar University of Calicut, Thrissur Kerala, 25th - 26th October 2002, Decentralised planning, implementation of a case study in Goa. (ii) Centre for Environment & Vocational studies, Punjab University Chandigarh, 8th & 10th November 2002, Env. issue in Goa.

Fatima D'Souza, State Level Seminar Govt. College Khandola, 22nd February 2002, Public Expenditure and Infrastructure in Goa.

Cristina D'Souza, State Level Seminar Govt. College Khandola, Khandola, 22nd February 2002, Role of the Govt. in promoting Small Scale Industries in Goa.

Pravina Kerkar, State Level Seminar Rosary College, Navelim, 23rd - 24th November 2002, Watershed Management.

Nilesh Borde, 1) Computer society of India, Goa Chapter, Panaji, November 2001, E-Commerce in Tourism. 2) State Level Seminar Govt. College Khandola, Khandola, 22nd February 2002, Overview of privatisation.

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

Mahesh Pai, Refresher Course in Genog issue, Dept. of women studies, Pune University, Pune.

Prabir K. Rath, Cartography and mapping, Indian Institute of remote sensing Dehradun, presented a project report in changing land use in Haridwar Area.

Prashant Chodankar, Remote sensing application to ocean studies, MO Donapaula.

S. Garay, Thermal Analysis, Bhabha Atomic Research Centre, Mumbai, January 2002, Thermal Studies on the precursors in the preparation of Manganite Spinel.

4.15.6 Publication (a) Research Articles : (Name, Title, Journal, Volume, Month/Year).

Prabir K. Rath, Concept of regional planning, Goa Geography, Vol.!, March, 2002.

4.15.8 (b) Ph.D. degree conferred during the year : (Name of Candidate, Subject, Title of the Thesis).

Seema P. Rath, Analytical & Applied Economics, Financing of college education in Goa.

4.15.9 Achievements: (Ranks/Merits in the University examinations/sports activities).

Sports :

Goa University - Inter- College Competition

Judo (women) Runners Up

Cycling (men) Runners Up

Swimming (men) Runners Up

Cross country Runners Up

Medal Tally (Individual): Gold-3, Silver-6, Bronze- 6

4.15.10 Any other information:

(a) Awards/Honours conferred:

Ph.D. degree in Analytical & Applied Economics by Utkal University Bhubineshwar for the thesis title "Financing of College Education in Goa."

(b) Fellowship/Visiting Professorship, etc.:

Fifteen professionals and experts from various fields visited college to deliver talks on various topics.

(c) Any other special achievement by students/staff.

Organising various activities for the benefit of school and Higher Secondary students and the community in general.

Nilesh Borde, did the follow up of project "Industrialisation of Goa" conducted on behalf of Ministry of Finance.

4.16 GOVERNMENT COLLEGE OF ARTS, SCIENCE AND COMMERCE QUEPEM

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

J. B. Fernandes, Ph.D., <i>Principal</i> , Chemistry	S. N. Patil, <i>Sr.Lecturer</i> , Geography
S. Mendes, M.A., LL.B., <i>Vice-Principal</i> , History	Rufina Borges, M.A., <i>Lecturer</i> , Geography
Beena K.Vernelcar, M.Sc., <i>Lecturer</i> , Chemistry	Cleopha A. Lobo, M.A., <i>Lecturer</i> , Geograph
Maria J.Menezes, M.Sc., <i>Lecturer</i> , Chemistry	Bernadette Gomes, Ph.D., <i>Lecturer</i> , Socioloi
Mehtab J. Bukhari, M.Sc., <i>Lecturer</i> , Botany	Reyna Sequeira, M.A., <i>Lecturer</i> , Sociology
C. Quaciros E Coutinho, M.Sc., <i>Lecturer</i> , Botany	Seema Salgaonkar, Ph.D., <i>Lecturer</i> , Pol.Scie
Jovita Vina D'Costa, Ph.D., <i>Lecturer</i> , Botany	C. Fernandes, LL.B., <i>Lecturer</i> , Pol.Science
Annie D'Souza e Gomes, M.Sc., <i>Lecturer</i> , Botany	Remy Dias, M.A., <i>Lecturer</i> , History
R. R. Kulkarni, Ph.D., <i>Lecturer</i> , Zoology	Rajay Pawar, M.A., <i>Lecturer</i> , Konkani
Sheena Paul, M.Sc., <i>Lecturer</i> , Zoology	Bharati Parab, M.Phil., <i>SrLecurer</i> , Hindi
Rita Sharma, M.Phil., <i>Lecturer</i> , Zoology	Brijpal Singh Gahloth, Ph.D., <i>Lecturer</i> , Hind
Juliana Silveira, M.Sc., <i>Lecturer</i> , Zoology	Asha Mangutkar, M.Phil., <i>SrLecturer</i> , Mara
Shirish D.Kamat, M.Sc., <i>Lecturer</i> , Physics	Ashok Mangutkar, M.A., <i>Lecturer</i> , Marathi
Narayan Bandonkar, M.Sc., <i>Lecturer</i> , Physics	P. S. Deepa, M.Phil., <i>Lecturer</i> , English
Olivia E Soares, <i>BE, Lecturer</i> , Comp. Science	Vidya R. Dalvi, <i>M.Com., Sr.Lecturer</i> , Comn
Onkar L. Ainapur, M.Sc., <i>Lecturer</i> , Comp. Science	Anthony Sathish, M.Phil., <i>SrLecturer</i> , Com
Philip Rodriguese, <i>BE, Lecturer</i> , Comp. Science	Purva Hegde Dessai, C.A., <i>Lecturer</i> , <i>Comm</i>
Liana Maria I.Da Costa, <i>MCA, Lecturer</i> , Comp.Sci.	<i>Santa N. Shahapurkar, M.Com., Lecturer, CI</i>
Miguel A. B. P. C. Martins, M.Sc., <i>Lecturer</i> , Maths	P. A. Patil, <i>M.Com., Lecturer</i> , Commerce
Elhrich D.Barreto, <i>M.Phil.,Lecturer</i> , Maths	Rajan Mathew, <i>MPE,, Director</i> , Physical Eck
R. G. Amballoor, M.Phil., <i>Sr.Lecturer</i> , Economics	Sandesh B. Dessai, M.Lib., <i>Librarian</i> , Libra!
Elizabeth Henriques, M.A., <i>Lecturer</i> , Economics	

4.16.5 Seminars/Conferences/Workshops, etc.

(b) (i) **Attended** : Seminars/Conferences: (Teacher, Name of Organising Institute, Place, Date, T1 Paper).

Bernadette Gomes, Carmel College, Nuvem, 6th - 7th December 2001, "Eco-religious cycle of the Peoi Goa".

Brijpal Singh Gahloth, Govt. College, Sanquelim, September 2001, "Akash Jukta Hai, Ek Samiksha".

Seema Salgaonkar, (i)Goa University, Taleigao-Goa, February 2002, "Engendering Goa - a criticp Patriarchal State."(ii) Goa University, Taleigao-Goa, 20th April 2002, "Elections to Panchayats An Overview."

Asha Mangutkar, (i) Sampark Madhayam, Kala Academy, Panaji, June 2001, "Stree Mukti: Vastav Viparyas Kiti".(ii) Pragatik Vicharmanch, Borim-Goa, 18th May, 2002, "Ajacha Stree F Avhane". (iii) Gomantak Marathi Academy, Panaji, March 2002, "Marathi language at college lel

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

Rajan Mathew, Political and Social system with special reference to Physical Education, Lakshimibai Nab Institute of Physical Education Gwalior (M.P.), "Physical Education as an Academic subject and i contents.

4.16.6 Publications: (a) Research Articles: (Name, Title, Journal, Volume, Month/Year).

Beena Vernekar, "Synthesis and x-ray structure characterization of Ethlenediammonium tetrathiromolybda Indian Journal of Chemistry, 40-A, June, 2001.

Asha A. Mangutkar, 'Stree Mukti: Vastav kiti-viparyas kiti', 1.1rjita' Diwali special issue, vol.II, Novembre 2001.

Purva Hegde Dessai, "Case in Management : An Indian perspective, P.I.M.R. Monograph series Prestige Institute of Mgmt. & Research, May, 2001.

(b) Books: (Name, Title, Publisher, Year).

Ashok D. Manguticar, Gomantakiy Kavita, All Goa Marathi Literary Conference, November 2001.

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

(b) Sports :

Winners at the Goa University Swimming Championship (Men).

Runners-up at the Goa University Cross Country Championship (Men).

Runners-up at the Goa University Judo Championship (Men).

Runners-up at the Goa University Volleyball Tournament (Men).

Sarika Naik was declared the lion Woman of Goa University at the Inter-collegiate-Athletic-Championship.

Savio Viegas was declared the second strongest man of Goa University at the Inter-collegiate Power-Lifting Championship.

4.16.10 Any other information:

(b) Fellowship/Visiting Professorship etc.

Remy Dias, awarded one year scholarship from 1st January - 31st December 2002 by Fondecap Oriente for referring to the original documents in the Archives and Libraries of Portugal with respect to his Ph.D. programme.

(c) Any other special achievement by students/staff.

Centre for distance education programme for post-graduate in Commerce, organised by Goa University.

Sagar Gosavi represented 19th Goa State Cricket Team held at Vijaynagar (A.P.), Chennai (T.N.), Bangalore (Karnataka), Margao & Panaji (Goa).

Seema Melasheemi represented for Goa University at the Inter-University Badminton Championship held at Jiwaji University, Gwalior (M.P.).

4.17 ROSARY COLLEGE OF COMMERCE & ARTS, NAVELIM

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

N. Fernandes, M.A., L.L.B., *Principal*, Psychology

S.Falleiro, M.A., *Vice-Principal*, Economics

N.Mazumdar, M.Phil., *Sr.Lecturer*, Mathematics

A. Rodrigues, M.A., *Sr.Lecturer*, English

S. Fernandes, M.A., *Sr.Lecturer*, Geography

F. Rodrigues, M.Com., *Sr.Lecturer*, Commerce

B. Gaonkar, M.A., *Sr.Lecturer*, Konkani

FraBeis Lobo, M.P.Ed., *Lecturer*, Physical Education

R. Fernandes, M.Com., C.A., *Lecturer*, Commerce

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

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

T. Mascarenhas, M.A., *Lecturer*, Psychology

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

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

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

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

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

Juao Costa, M.Com., *Lecturer*, Commerce

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

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

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

Precy Fernandes, M.C.A., *Lect.*, Computer Science

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

Maria Lourdes Dias, M.Lib., *Librarian*

Tolentina Xavier, LLB, *Lecturer*, Business Law

Manoj Kamat, M.A., *Lecturer*, Konkani

Freda Cota, M.A., *Lecturer*, Psychology

Jenet Borges, M.A., *Lecturer*, Hindi

A. Sakhawalkar, M.C.M., *Lecturer*, Comp.Science

Jyoti Ghadi, M.Com., *Lecturer*, Commerce

S. Prabhudesai, M.B.A., *Lecturer*, Management

Anisha Mascarenhas, MCA, *Lecturer*, Management

Mildred Lemos, *BE, Lecturer*, Comp.Science

Elizabeth Fernandes, *BE, Lecturer*, Comp.Science

Avita Gonsalves, *BE, Lecturer*, Comp.Science

Purva Talaulikar, *BE, Lecturer*, Comp.Science

Tereza Moonjapully, M.A., *Lecturer*, Economics

4.17.2 Highlights of the Research Activities:

Neeta Mazumdar registered for Ph.D. in Computer Graphics under the guidance of A. Ojha, Rani Durgavati

Vishwa Vidyalaya, Jabalpur , M.P.

Filipe Rodrigues e Melo registered for Ph.D. on the topic "Tourism Development in Goa with special reference to Goa Tourism Development Corporation" under the guidance of S. S. Hugar, Dept. of Commerce, Karnataka University, Dharwad, Karnataka.

4.17.5 Seminars/Conferences/Workshops, etc.

(a) Organised : (Title/Theme, Dates, Funding agency, Name of Dept.).

Training Programme for N.S.S. Volunteers and Community leaders on AIDS Awareness, 26th November sponsored by Ministry of Youth Affairs, Govt. of India and N.S.S. Regional Centre, Pune.

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

Afonso Botelho, Goa University, Language & Primary Education; Colonial legacy and Post Colonial Con 4th February 2002.

Savio Falleiro, BOS, Dept. of Economics, Goa University, The Teaching of Micro-Economics at the U.G. 15th February 2002.

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

Newman Fernandes, Higher Education, Vivekananda Centre, Kanyakumari, April 2002.

Filipe Rodrigues Melo, Workshop on Information Technology for Educational Administrations in Higher Education, Bangalore, 28th - 30th April 2002.

Charmaine D'Souza, Human rights Education in Colleges, Coonor The Niligiries, 21st - 12th May 2002, Human rights for women & children.

Bhalchandra P. Gaonkar, (i)All India Konkani Literary Conference, Mangalore, 21st - 22nd April 2002. (ii) Seminar on Interfaith Programme for College Lecturer, Bangalore, 10th - 15th May 2002.

Maria Lourdes Dias(Librarian), Information Technology for Librarian in Higher Education, Bangalore, 2nd May 2002.

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

Filipe Rodrigues e Melo, A study of interstate movement of Agriculture products and associated Marketin problems in Goa, Indian Journal of Agriculture Marketing, Vol.15, September/December,2001.

Neeta Mazumdar, Application of Bezier curves in Computer Aided Design, Vanahmihir Jourin Mathematical Sciences, Vol.!, January 2002.

(b) Books: (Name,Title, Publisher, Year).

Bhalchandra Gaonkar, (i) Andolle Usvas, Mitra Prakashan, Ponda-Goa, 2001 (ii) Yadinche Deger, Mitra Prakashan, Ponda Goa, 2001.

4.17.10 Any other information :

(b) Sports :

First Place in Cross Country organised by Goa University. In the individual category, Valanky Dumaslc place in cross Country championship.

First place in the Inter Collegiate Football tournament organised by Saraswat College, Mapusa.

In the Judo Competition Succorine Fernandes secured first place in Judo and was judged as boys Judoka at the girls.

Debra D'Silva secured second place in the Inter Collegiate Judo organised by Goa University.

First place in the inter collegiate Handball tournament (Girls).

Second place in the inter collegiate Handball tournament (Boys).

Second place in the inter collegiate Athletic Meet organised by Goa University (Boys).

Following were the participants who have won medal at Goa University Athletic Meet :

Dumaskar Valanky won 1st place in 800 mts., High Jump, Javelin throw and 4 x 100 mts. relay, 2^{1st} place i 400 rns. relay and won the individual position in the women section.

Patil Chandra 1st place in 4 x 100 mts. relay 2nd place in 4 x 400 mts. relay, 3^d place in 3000 nits.

Mascarenhas Lareine 2nd place in Shot put and discuss.

Col aco Lidia 1^m place in 4 x 100 nits. relay, 2^{5^d} place in 4 x 400 mts. relay.

Nadia D'Cruz place in 4 x 100 rnts. relay and second place in 4 x 400 mts. relay.

Few students represented Goa University and Goa State.

Mark Dourado - Football (Goa University).

Succorine Fernandes - Judo (Goa University)

Jane D'Silva and Valanky Dumaskar - Handball (Goa State).

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
J. Churl, M.P.Ed., *Director*, Physical Education
Suldiaji Naik, [M.Com.](#), *Lecturer*, Accountancy
Pragati Bhonsle, [M.Com.](#), *Lecturer*, Account.
Satyajit Hirve, [M.Com.](#), *Lecturer*, Accountancy
Divalcar Joshi, I.C.A., *Lecturer*, Accountancy
Santosh Patkar, M.Phil., *Lecturer*, Commerce
Shetty Prajna, [M.Com.](#), *Lecturer*, Commerce
S. Shrivastava, M.M.S., *Lecturer*, Management
Sterol Godinho, [M.Com.](#), *Lecturer*,
Management

Borkar Sharmila, M.A., *Lecturer*, Economics
Devi P. S., M.A., *Lecturer*, Economics
D'Souza Henriques, M.A., *Lecturer*, Economics
Anna E Souza, M.A., *Lecturer*, Economics
Smita Sail, M.A., *Lecturer*, English
Borkar Smruti, B.E., *Lecturer*, Comp.Science
Chari Sushant, M.Sc., *Lecturer*, Comp.Science
Tamhankar Prakash, M.Sc., *Lecturer*, Maths
Gawas Sajo, [M.Com.](#), *Lecturer*, Law
Kalekar Udes, M.Sc., *Lecturer*, Geography

4.18.2 Highlights of the Research Activities :

Santosh Patkar, involved in research work leading to Ph.D . on topic, 'Emerging financial services in Bankin industry.

Sharmila Borkar, actively involved in research work leading to Ph.D., reaserch subject is ' Economics Health Care in Goa.'

4.18.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding agency, Name of Dept.).

Physical Education-Present Status & Future Perspectives, 29th April 2002, Saraswat College.

The Union Budget 2002-2003, some issues, 5th March 2002, Saraswat College.

(b)Attended: Workshops:(Name of Teacher, Theme of workshop, Place, Date, Title of Paper).

Santosh Patkar, 15th National Conference on Agriculture, Mumbai.

Prakash Tarnhanicar, Training Programme UTA, BARC, Mumbai.

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

(b) Sports:

Shailesh Chodankar represented University Athletic team.

Pradeep Chopdekar represented Goa University Football team at Nagpur.

Jyoti Chodankar represented Goa team in Kabaddi at Goa.

Sushant Redkar, Silver Medal in 60+ category Judo.

Nora Fernandes reprented Goa University athletics team,

Vishant Arlekar, the Gold Medal in 55+ Category Judo.

Swapnil Dharwadkar reprented Goa in Badminton Nationals held at Pune.

Nichole Lobo represented Goa University in Judo at Gwalior, Gold Medal in 60+ category Judo.

Jaya Kankanwadi won gold medal in 50kg category Judo represented Goa University team, Judo at Gwalior.

Pratima Puranik reprented Goan Cricket team at Nationals.

Team Performance:

Intercollegiate Football championship winners (Men).

Intercollegiate Badminton championship winners (Men).

Intercollegiate Weight lifting championship winners (Men).

Intercollegiate Kabbaddi championship Runners up (Women).

Intercollegiate Athletics championship Runners up (Men).

4.18.10 Any other information:

(c) Any other special Achievements by Students/Staff :

College organised Hirachand Memorial Elocution Competition for college students.

Students Council of College organised a week long programme on the Talent Search week wherein variou competition such as elocution, miming, monologue, one act play, quiz. antakshari were held.

College won first prize at elocation competition organised by Sanathan Sanstha.

College actively participated in Konkani Yuva Sammelan organised by Govt. Coolege of Arts, Scien
Commerce, Sanquelim.

College bagged IInd place at One Act Play Competition Organised by Kala Academy in December 2001 fi
skit play "Pravasi".

The hiking association held annual hike held at Chandreshwar Parwat, Paroda, Quepem.

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*, Pol. Sc.
Angela Dias, M.A., *Lecturer*, Political Science
Mario D'Souza, M.Phil, *Lecturer*, Economics
Roy Gomes, M.A., *Lecturer*, Economics
Mini Gangadharan, M.A., *Lecturer*, Economics
Annie Shalcoor, M.A., *Lecturer*, English
Allan Noronha, M.A., *Lecture-basis*, English
Soraya Rebelo, M.A., *Lecturer*, History
Beula Pereira, M.A., *Lecturer*, Sociology
F. Rodrigues, M.A., *Lecturer*, Sociology
Rajashree Sail, M.A., *Lecturer*, Konkani
Nityanand Naik, M.A., *Lecture-basis*, Konkani

Santosh Chyari, M.A., *Lecturer*, Hindi
Janet Borges, M.A., *Lecture-basis*, Hindi
Hazel Colaco, *M.Com.*, *Lecturer*, Commerce
Regi George, *M.Com.*, *Lecturer*, Commerce
A. Rodriguese, *M.Com.*, *Lect.*, Commerce
A. D'Souza, *M.Com.*, *Lecturer*, Commerce
Monica Antao, *M.Com.*, *Lecture-basis*, *Comme*,
Agnelo Dias, M.P.E.D., *Director*, Physical Ethic
Loren Mergulao, M.Sc., *Lecturer*, Maths
Sheetal Kanago, M.C.A., *Lecturer*, I.T.
Precilla Telles, M.A., *Lecture-basis*, Geography
Ainodin Aga, M.A., *Lecturer*, Business Law

4.19.2 Highlights of the Research Activities:

Anthony Rodrigues, Research Scholar doing Ph.D. in the Department of Commerce, Goa University on the
topic of "Accounting and Financial Practices of small scale industries in Goa" under the guidance of 13:
Ramesh since 1998.

4.19.5 Seminars/Conferences/Workshops, etc.

(b) (i) Attended: Seminars/Conferences: (Teacher, Organising Institute, Place, Date, Title of Papei
Angela Dias, Social Science Centre & Institute of Indian Culture, Mumbai, 5th - 6th October 2001, Case stu of
defections in Goa (1963-1993).

Anthony Rodrigues, Indian Accounting Association, Tirupati, 13th - 1e September, 2001, Segment Reporti
Case study of MPT, Goa.

Fredrick Rodrigues & Allan Norohna, All India Association for Christian Higher Education, Bangalore, I
21s¹ May 2002.

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

(b) Sports:

Antonette Pereira, 1st place at the Inter-Collegiate Poetry Recitation Competition organized by CES Coll
Cuncolim.

Livia Gonsalves, 3rd place at the All Goa Essay Writing Competition.

P. S. Ramani Medical Foundation, Ponda as Part of the Health Awareness Project.

Winners for the second year in succession in the Inter-Collegiate Volleyball Tournament (Men),Goa Univer,
Runners-up, Hockey tournaments (Boys). Both the Basketball team reached up to the Semi-finals.

Branco Vales, Gold Meda1,10000 mts. Race, Annual athletics meet.

Kingston Mathew, Silver Medal, high jump for men.

College men relay team won Bronze medal in 4 x 400 mts.

4.20 SHREE MALLIKARJUN COLLEGE OF ARTS & COMMERCE. CANACOPL

4.20. I 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
Jagmohan Singh, M. A., *Lecturer*, Economics

Geeta Walwekar, M.A., *Lecturer*, Economics
V. R. Pawaskar, M.A., *Lecturer*, English
Kshama Desai, [M.Com.](#), *Lecturer*, Commerce
Sandesh Sawant, [M.Com.](#), *Lecturer*, Commerce
Sucheta Naik, M.Phil., *Lecturer*, Commerce
Tanuja Fal Desai, M.Sc., *Lecturer*, Maths
Rupa Chari, M.A., *Lecturer*, Hindi
Domital D'Souza, M.A., *Lecturer*, History
Parag Parab, M.A., *Lecturer*, History
Puranand Chari, M.A., *Lecturer*, Konkani

Pramada Desai, M.A., *Lecturer*, Marathi
Arvind Haldankar, M.A. *Lecturer*, Sociology
S. Leitao, M.P.Ed., *Director*, P.E., Sports
D. Desai, M.A. LL.B., *Lecture basis.*, Business Law
Sushma Salokhe, M.A., *Lecturer(Part time)*, Marathi
Amrut Naik, [M.Com.](#), *Lecture basis*, Commerce
Tukaram Velip, M.A., *Lecture-basis*, Hindi
Nityanand Naik, MA., *Lecturer (Part time)*, Konkani

4.20.5 Seminars/Conferences/Workshops, etc.

(a) Organised : (Title /Theme, Dates, Funding agency, Name of Department).

Literature: Creation, Appreciation, Learning, 31' August 2002, Goa Konkani Academy, Department of Konkani.

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

(b) Sports:

Kabaddi Team (men) won University Champion for 2000-2001.

4.21 GOVERNMENT COLLEGE OF ARTS & COMMERCE, PERNEM

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

O. C. N. de Noronha, M.A., *Offg.Principal*, English
G. A. Hegde, Ph.D., *Lecturer*, Commerce
G. V. Madiwal, [M.Com.](#), *Lecturer*, Commerce
Namdev M. Gawas, [M.Com.](#), *Lecturer*, Commerce
Xavier M. Martins, Ph.D., *Lecturer*, History
Amrita A. Dinge, M.A., *Lecturer*, Hindi
Soniya R. Sirsat, M.A., *Lecturer*, Hindi

Nirmala J. D. D'Abreu, M.A., *Lecturer*, Economics
Satish Sanvol, M.A., *Lecturer*, Economics
B. K. Haravi, M.A., *Lecturer*, Geography
Ishani Roy, M.Phil., *Lecturer*, Geography
Neeta Tome, M.A., *Lecturer*, Marathi

4.21.5 Seminars/Conferences/Workshops, etc.

(a) Organised : (Title /Theme, Dates, Funding agency, Name of Department).

Arun Heblekar's Literature, 22" February 2002, Gomantak Marathi Academy, Department of Marathi.

(b) (i) Attended: Seminars/Conferences: (Name of Teacher, Organising Institute, Place, Date, Title of Paper).

Amrita Dinge, Govt.College Sankhalim and Arvind, Govt.College, Sankhalim, "Aur Mandovi Bahati Ralii" Bk Mulyankan.

Soniya R. Sirsat, Mudhoji Mahavidyalaya, Faltan, Satara Maharashtra, 9⁰¹¹ - 10³¹ February 2002, "Rajendra Yadav Ka Upanyas Sansar: Samakalin Sandarbh Eram Manovishleshanatmak Pehelu".

Namdev M.Gawas, Goa University & Govt. College of Arts, Science & Commerce, Sankhalim-Goa, 7^{1h} - 8th March 2002, "Impact of International Terrorism on Goa's Economy".

4.21.6 Publications: (a) Research Articles: (Name, Title, Journal, Volume, Month /Year).

Soniya Sirsat, Rajendra Yadav Ka Upanyas Sansar: Samakalin Sandarbh Tatha Manovishleshanatmak Adhyayan.

4.21.8 (b) Ph.D. Degree conferred during the year.

Soniya Sirsat, Hindi, Rajendra Yadav **Ke** Katha Sahitya Manovishleshanatmak Adhyayan.

4.21.10 Any other information:

(b) Any other special achievements by Student /Staff.

Soniya R. Sirsat, (i) Served as the member of an Editorial Board to bring out the new text book entitled 'Kavya Manjiri' for S.Y.B.A. (Hindi) class. (ii)N.S.S. Programme Officer worked on the local organizing committee for Pan-Common Wealth event held in Goa on the theme 'Promoting Common Wealth Values among Youth' organized by Common Wealth Secretariat, London, in co-ordination with the Directorate of Sports & Youth Affairs, Panaji, from 25th - 30th June, 2001. (iii)Selected by

N.S.S.Regional Centre, Pune to lead the Goa N.S.S. Contingent to the National Integration Car girls organized by Youth Hostel, Panaji from 1st July 2001 - 7th July 2001. (iv) Selected by Direc of Youth Affairs, Panaji, to lead the Goa N.S.S. Contingent to the National Integration organized by N.S. Unit, ICakatiya Govt. College, Hanamkonda, Andhra Pradesh from 12th October 2001.

4.22 NARAYAN ZANTYE COLLEGE OF COMMERCE, BICHOLDA

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

A. Salchardande, <u>M.Com.</u> , LL.B., <i>Prin.</i> , Corn. & Bus. Mgt.	Bindiya Codankar, M.A., Lecturer, Busi. Econo
R. Amonkar, <u>M.Com.</u> , <i>Lecturer</i> , Corn. & Bus. Mgt.	Shefali Coulekar, M.A., Lecturer, Busi. Econom
Sanlcaranarayanan K.G., Ph. D., <i>Lect.</i> , Corn. & Bus. Mgt	Sherin Sheikh, M.A., <i>Lecturer</i> , English
R. Kumbharjuvenkar, <u>M.Com.</u> , <i>Lect.</i> , Corn. & Bus. Mgt.	N. Kamat, M.Sc., <i>Lecturer</i> , Mathematics
R. Surlekar, M.M.S., <i>Lecturer</i> , Corn. & Bus. Mgt.	J. Adhikari, M.C.A., <i>Lecturer</i> , Comp.Sc.
Nayana Sail, <u>M.Com.</u> , <i>Led.</i> , <i>Acct. & Cost & Mgt.</i> Acct.	Dhaktu Pal, LL.M., <i>Lecturer</i> , Bus. Law.
P. Sawant, <u>M.Com.</u> , <i>Lect.</i> , <i>Acct. & Cost & Mgt.</i> Acct.	J. Dias, M.A., <i>Lecturer</i> , Geography
B. Bandekar, <u>M.Com.</u> , <i>Lect.</i> , <i>Acct. & Cost & Mgt.</i> Acct.	S. Harmalkar, M.P.Ed., <i>Director</i> , Sports
Shweta Borkar, M.A., <i>Lecturer</i> , Buis. Eco.	Sudhir Halvegar, M.Lib., <i>Librarian</i> , Library

4.23 G S S DON BOSCO COLLEGE, PARMA!

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

Anjali Sardesai, <i>MCA, Incharge Principal</i>	Margaret D'Souza, Ph.D., <i>Lecture- basis</i>
Rajani Murlidhar, <i>MCA, Lecturer</i>	Zasca Fernandes, M.A.BEd., <i>Lecture- basis</i>
Minaz Bi Shaikh, <i>M.Sc., Lecturer</i>	Domnic Fernandes, BE, PGDBA, <i>Lecture- bas</i>
Swati Chindukar, <u>M.Com.</u> , <i>Lecture- basis</i>	

(b) PROFESSIONAL COLLEGES

4.23 GOA COLLEGE OF PHARMACY, PANAJI

4.23.1 List of Teaching staff: (Name, Qualifications, *Designation*, Subject).

R.V. Gaitonde, Ph.D., <i>Principal</i> , Pharmacognosy	M. H.S.Godinho, M.Pharm., <i>Sr. Lecturer</i> , Pharm
M. P. Bhohe, M.Pharm., <i>Sr. Lect.</i> , Pharmacognosy	R.V. Keny, M.Pharm., <i>Officiating Prof</i> , Pharm.
M. G. Pai, M.Pharm., <i>Asst. Prof</i> , Pharm. Chemistry	R. S. Gude, M.Pharm., <i>Lecturer</i> , Pharmaceutics
L. Almeida, M.Pharm. <i>Asst. Prof</i> , Pharm. Chemistry	P. J. Bhide, M.Pharm., <i>Lecturer</i> , Pharmaceutics
S. S. Amonkar, M.Pharm., <i>Sr.Lect.</i> , Pharm. Chemistry	R. K. Shirodkar, M.Pharm., <i>Lecturer</i> , Pharmaceul
A. Menezes, Ph.D., <i>Sr. Lecturer</i> , Pharm. Chemistry	Y. Sardessai, M.Sc., <i>Lecturer</i> , Microbiology
T. V. Walke, M.Pharm., <i>Lecturer</i> , Pharm. Chemistry	L. P. Silveira., M.Sc., <i>Lecturer</i> , Biochemistry
D. M. Shingbal, M.Pharm., <i>Asst. Prof.</i> , Pharm. Analysis	A. Betigeri, Bach.in Comp. Sc., <i>Lecturer</i> , Comp.

4.23.2 Highlights of the Research Activities:

R. V. Gaitonde, R. V. Keny, M. G. Pai, D. M. Shingbal guided the students for M. Pharm. course in Q Assurance partly by papers and partly by research.

4.23.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title, Theme, Dates, Funding agencies, Name of dept.)

Global scenario of Pharmaceutical Technology in New Millennium, 17th - 29th December, 2001, ISTE-AI Goa College of Pharmacy.

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

R. Shirodkar, D. M. Shingbal, New Delhi, December 2001, A simple Validated Spectrophotometric method for the estimation of Ondansetron Hydrochloride USP (Poster session).

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

R. K. Shirodkar & P. J. Bhide, Analytical Instrumentation in Pharmaceutical Sciences a practical traininl course.

B. V. Patel, Ahmadabad, r^d — 7th July, 2001.

M. P. Joshi, Community Pharmacy, New Delhi, December, 2001.

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

(a) Academic: (Name of the Student, Achievements (i.e. ranks etc.), Examinations.

Five students secured first class with distinction thirty six First class and three students secured second class a degree level. All ten students appeared at the examination passed in first class with distinction at M. Pharm level.

Team of Goa College of Pharmacy won intermedical and paramedical cricket match organised by Kamax Ayurvedic College, Shiroda.

4.24 GOVT. ENGINEERING COLLEGE, FARMAGUDI

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

DEPARTMENT OF CIVIL ENGINEERING

S. B. Sheldarkar, M.Tech., *Assn. Professor*

C. S. Gokhale, Ph.D., *Asst. Professor*

P. R. Mutgi, Ph. D., *Asst. Professor*

K. G. Guptha, ME., *Asst. Professor*

A. K. S. Bhaduria, B.E., *Asst. Professor*

S. Mesquita, Ph.D., *Asst. Professor*

A. Jalihal, M.Sc., *Lecturer*

S. N. Betagiri, B.Tech., *Lecturer*

Ujwala Phadke, M.Sc., *Lecturer*

Praanna Kumar, M.E., *Lecturer*

Ganesh Hegde, B.E., *Lecturer*

Wilma Fernandes, B.E., *Lecturer*

Nisha Amonkar, M.E., *Lecturer*

Vikas Chodankar, M.Tech., *Lecturer*

Shanti Balasubramaniam, ME., *Lecturer*

DEPARTMENT OF MECHANICAL ENGINEERING

A. R. Naik, Ph.D., *Professor*

A. D. Telang, M.Tech., *Assitant Officer*

J. J. Goliwadekar, M.Tech., *Asst. Professor*

Uday Amonkar, M.E., *Asst. Professor*

A. A. Sidiqui, B.Sc., *Lecturer*

George Easaw, M.E., *Lecturer*

B. R. Kulkarni, M.E., *Lecturer*

Rajesh Prabhu Gaonkar, M.E., *Lecturer*

B. S. Manohar Shankar, M.E., *Lecturer*

D. V. Shirodkar, M.E., *Asst.Suptd. Workshop*

V. Marriappan, M.E., *Lecturer*

Milind Sakhardande, M.E., *Lecturer*

S. B. Balsubramanian, ME., *Lecturer*

DEPARTMENT OF ELECTRONICS & TELECOM. ENGINEERING

R. B. Lohani, Ph.D., *Professor*

V. N. Shet, M.Tech., *Asst. Professor*

M. Tamhane, M. Tech., *Asst. Professor*

V. T. Colaco, M.Tech., *Lecturer*

A. Chimulkar, M. Tech., *Lecturer*

H. G. Virani, BE., *Lecturer*

DEPARTMENT OF COMPUTER ENGINEERING

J. A. Lax minarayana, M.E., *Asst. Professor*

A. U. Bapat, ME., *Lecturer*

Maruska Mascaranhas, BE., *Lecturer*

Nilesh Faldessai, B.E., *Lecturer*

Geeta Varkey, B.E., *Lecturer*

DEPARTMENT OF ELECTRICAL ENGINEERING

Jaimol Thomas, M.Tech., *Assn: Professor*

V.K. Joseph, M.E., *Asstt. Professor*

Subhash P. Borkar, M.Tech., *Asstt.Professor*

F. A. Rodrigues, M.A., *Lecturer*

Chanda Pathak, B.Sc. Engg., *Lecturer*

G. Kuncolienkar, M.E., *Lecturer*

T. Krishnakumari, B.Tech., *Lecturer*

M. S. Raydu, M.E., *Lecturer*

Sangeeta Mahaddalkar, B.E., *Lecturer*

Anant Naik, B.E., *Lecturer*

Suneeta S. Raykar, B.E., *Lecturer*

A. Chari, *Lecturer*

4.24.4 Sponsored Research Projects sanctioned during the academic year. (Name of the Investigator, To] Date of Sanction, Funding Agency, Amount).

K. G. Gupta, Mine waste management with used tires, 24th March 2000, AICTE, 6.0 Lakhs.

4.24.5 Seminars/Conferences/Workshops, etc.

(a) Organised : (Title/Theme, Dates, Funding Agency, Name of Department).

Recent Trends in Opto Electronics Devices & System, I 1th - 15th February 2002, AICTE-ISTE, New Delhi Electronics & Telecommunication.

(b) (i) Attended Seminars/ Conferences: (Name of Teacher, Name of Org. Institute, Place, Date, of Paper).

R. B. Lohani, NMV, Jalgaon, Jalgaon, 5th - 7th December 2001, I-D Modeling of Generalised OPFET. V. N. Shet, (i) Calcutta University, Kolkata, 13th - 15th December 2001, Power factor correction issue I.I.T. Hyderabad, Hyderabad, 17th - 21st December 2002, Protocol networking.

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

Adappa Jalihal, Technical Communication, QIP-I.I.T.B.

S. N. Betagiri, Ujwala Phadke, Wilma Fernandes, Prassana Kumar, Nisha Amonkar, Vikas Chodankar, Balasubramaniam, Rain water Harvesting, GEC.

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

R. B. Lohani, Artificial Intelligence in Telephone Networking, Telecommunication, page 57-60, Jam February, 2002.

4.24.8 Ph. D. degree conferred during the year. (Name of Candidate, Subject, Title of the Thesis).

P. B. Mutgi, Geotechnical Engg.(Civil).

4.24.9 Achievements : (Ranks/Merits in the University Examinations/Sports activities).

ICrshka Afonso, Rank, Electronics & Telecommunication Engg.

4.24.10 Any other information.

Santanu , Vaidya, Bhatt, final year Electronics & Telecommunication students have got project first prize IETE National Level Competition at Naveneyar District, Dhule, Maharashtra.

R. B. Lohani, (i)Member of organising committee and Technical Programme Committee BBOFCT —2001 International Conference at Jalgaon. (ii) Member of selection committee as subject expert for tea staff at Amravati University.

4.25 NIRMALA INSTITUTE OF EDUCATION, PANAJI

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

Rita Paes, Ph. D., *Principal*

Sharmila Veloso, M. Ed., *Lecturer*

Rhoda Almeida, M. Ed., *Lecturer*

Nicholas D'souza, M. Ed., *Sr. Lecturer*

Kunda Borde, M.Phil., *Sr. Lecturer*

Vida Sequeira, M.Ed., *Sr. Lecturer*

Denzil Martins, M.Ed., *Lecturer*

Suvarna Gauns, M.Ed., *Lecturer*

Jude Miranda, M.Ed., *Lecturer*

Ximena Fonseca, M.Ed., *Lecturer*

Eutemia Fernandes, M.Ed., *Lecturer*

Gopal C. Pradhan, Ph.D., *Sr. Lecturer*

Sushant C. Pradhan, Ph.D., *Sr. Lecturer*

Diana D'souza, M.Ed., *Lecturer*

4.25.5 Seminars/Conferences/Workshops, etc.

(a) Organised : (Title, Theme, Dates, Funding Agency, Name of Dept).

A workshop on "Research Methodology" for M.Ed. students and college teachers, 16th - 18th August Nirmala Institute of Education.

A workshop on "Kaizen" for the faculty on 14th June 2001. The resource person was Blaise Costabir.

A weekend workshop on "Mastering Change - a Psycho - Spiritual Approach" for the Ex - students of Ni Institute, 8th - 10th March 2002.

- (b) (i) Attended: Seminars/Conferences: (Teacher, Theme of Conference, Place, Date, Title of Paper).
- Rita Paes, (i) State level Advocacy for School AIDS Education programme organised by Goa State aids Control Society, 15th June 2001. (ii) A one day seminar on "Woman Empowerment in the Constitutional Context" organised by Government College of Arts, Science and Commerce, Khandola, Marcela in association with the Directorate of Higher Education, Panaji, Goa University, 5th December 2001.
- Kunda Borde, "College Students Council and its prospects during the 21st Century", Directorate of Students Welfare and Culture, Goa University, 9th March 2002.
- Suvarna Gauns, Ximena Fonseca, (i) A one day State Level seminar, "Woman Empowerment in the Constitutional Context" organised by Government College of Arts, Science and Commerce, Khandola, Marcela in association with the Directorate of Higher Education, Panaji, Goa University, 5th December 2001. (ii) A two day state level seminar on "Eco-Spirituality-Re-discovering Ecology in our Religion and Culture", Carmel College for Women, Nuvem-Goa, 6th - 7th December 2001.
- Kunda Borde, National Seminar on "Mass Media", Department of Hindi, Goa University, Institute Menezes Braganza Hall, Panaji, 22^d February 2002.
- Sushant Pradhan, (i) "Assuring quality in Secondary Teacher Education", XX1CV All India Teacher Educator's National Conference on "School Curriculum Frame Work - 2001 : Its Implications for Teacher Education", 27th - 29th December, 2001, Indian Association of Teacher Education and KSOU, Mysore. (ii) "Role of ICT in Humanizing Education", UGC National Seminar on "ICT in Education : Emerging Issues", CASE, M. S. University, Baroda, 16th- 17th January 2002. (iii) Seminar on Emerging Trends in Teacher Education, 21st August 2001, NCTE and Karnataka State Open University, Mysore.
- (b) (ii) Attended: Workshops: (Teacher, Theme of Conference, Place, Date, Title of Paper).
- Sharmila Veloso, Denzil Martins, Jude Miranda, Nicholas D' Souza, "Online Learning", Goa University Campus, 10th - 11th December 2001.
- Sharmila Veloso, Rhoda Almeida, Kunda Borde, Vida Sequeira, Suvarna Gauns, Ximena Fonseca, Eutemia Fernandes, A one day session on "Self-Esteem and Motivation", Government College of Arts, Science and Commerce, Khandola-Marcela, Rotary Club, 23^d March 2002.
- Kunda Borde, Hindi Bhatikalin Kavitaon Ka Punar-mulyankan, Smt. Parvatibai Chowgule College, Margao and U.G.C., 18th - 19th February 2002.
- Vida Sequeira, (i) A meeting on Christian studies to discuss the proposed 3 year regular graduate curriculum at St. Xavier's College, Mapuca, on 8th August 2001, All India Association of Christian Higher Education (AIACHE). (ii) A meeting of key Resource Persons in the area of Guidance and Counseling as recommended by NCTE for Secondary schools. Goa Board of Higher Secondary Education, Porvorim, 13th August 2001. (iii) A workshop-cum-lecture on "Advances in Special Education", Sanjay School for the Handicapped, Porvorim and sponsored by National Institute of Mental Health, Mumbai, 4th - 5th October, Porvorim.
- Denzil Martins, Inservice Training Programme for Teachers of Secondary and Higher Secondary Schools of Goa in "Scaling, Grading and Continuous Comprehensive Evaluation" at the Goa Board of Secondary and Higher Secondary Education, Alto-Porvorim, 1st - 11th September 2001. (ii) Information Technology enabled Services (ITES), Goa Marriot Resort, Panaji, 26th - 27th July, Government of India and Goa Chamber of Commerce.
- Eutemia Fernandes, Environmental Education in the School System for five days in May 2002, Directorate of Education, Panaji. (ii) The Fourth Teacher training workshop conducted by World Wide Fund for Nature India in Association with the Faculty of Life Sciences Goa University under the India - Canada Environment Facility, 4th - 7th December 2001.
- Nicholas D'Souza, Rhoda Almeida, Kunda Borda, Vida Sequeira, Denzil Martins, Suvarna Gauns, Refresher course in Education, sponsored by UGC, Academic Staff College, Goa University, 23^d October - 1st 2nd November, 2001.
- Jude Miranda, Ximena Fonseca, Orientation course, Academic Staff College, Goa University, 7th February - 6th March 2002.
- Gopal Pradhan, Sushant Pradhan, Refresher course in Education, UGC, Academic Staff College, Goa University, 23rd 11th October - 12th November 2001.
- Diana D'souza, The Orientation Programme conducted by Academic Staff College, Goa University, 14th December - 10th January 2002.

4.25.6 Publications: (a) Research Articles: (Name, Title, Journal , Volume, Month/Year)..

Gopal Pradhan, (i) Factors Affecting Occupational Aspirations of College Youth, University News, XXX December 2001. (ii) Evaluation in Higher Education A Suggested Scheme, University News XX February 2002. (iii) Environmental Awareness Among Secondary School Teachers, Experiment Education, XXX 1⁴ January 2002. (iv) Comparative Reliability Between Marketing and Gr University News, XXXX 11th March 2002.

4.25.10 Any Other Information.

(a) Honours Conferred - Appointments:

Jude Miranda, (i) Member of the Board of Studies for Information Technology for the Goa Board Secondary and Higher Secondary Education. (ii) Member of the Committee for Development of Resource for Teachers in Science from V to VII by State Institute of Education.

(b) Visiting Faculty:

Gopal Pradhan, Lectures (20) in Statistics for the Research Methodology and Statistics as part of the Psychology course conducted by St. Xavier's College of Arts, Science and Commerce, Mapusa.

4.26 GOA COLLEGE OF FINE ART, ALTINHO, PANAJI

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

Mahesh Vengurlekar , B.F.A., <i>Principal</i> , App. Art	S. P. Chendvankar , G.D. Art, <i>Lecturer</i> , Painting
A. R. Shirodkar , G.D. Art, <i>Lecturer</i> , Applied Art	A. H. Farooqui , G.D. Art, <i>Lecturer</i> , Painting
Anthony D' Souza , B.F.A., <i>Lecturer</i> , Applied Art	Rohini Kakode , G.D. Art, <i>Lecturer</i> , Painting
Rajeev Shinde , B.F.A., <i>Lecturer</i> , Applied Art	H. R. Kambli , M.F.A., <i>Lecturer</i> , Painting
Sabita Prabhudessai , B.F.A., <i>Lecturer</i> , Applied Art	M. M. Chodankar , M.F.A., <i>Lecturer</i> , Painting
Domnic Cordo , 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
M. M. D'Cruz Ferreira , B.F.A., <i>Lecturer</i> , Applied Art	Harsha Mandurkar , M.F.A., <i>Lecturer</i> , Painting

4.26.5 Seminars/Conferences/Workshops, etc.

(a) Organised : (Title, Theme, Dates, Funding Agencies, Name of Department).

Ram Kasture, (i) an eminent Calligrapher from Mumbai has conducted a workshop/demonstrative Calligraphy for First Year Students, 17th January 2002. (ii) A Photography Workshop was conducted by **1 Principal**, College of Art, Sawantwadi, 18th - 21st September 2001 where the senior students of Applied Art observed and practiced various techniques involved in Professional Photography.

Kashinath Salve, eminent Artist, Mumbai has conducted demonstration/ workshop in creative painting Mural Design for Painting students of this college, 4th February 2002.

Anil Naik, an artist and portrait painter, Mumbai conducted a workshop in drawing and portraiture for senior students of the Painting Department, 25th February 2002.

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

(a) Academic:

Vandana Prakash Naik, 1⁴ Rank, B. F. A. (Painting).

I. Cambli Swapnil Mahadeo, 1st Rank, B. F. A. (Applied Art).

4.26.10 Any other information.

Nirmal Kulkarni & Mahesh Naik, Participated in the National Workshop in Drawing, Painting, Gr Sculpture and Photography at Delhi Art College, 12th - 17th November 2001. They were selected best participants in the entire workshop.

The students of IVth and Vth year of Applied Art produced a short film under the guidance of **Shri S. Tondwalkar** a celebrity in the field of Audio-Visual & Comm.

'Cala Utsav , 2002, A Walk in Child Art competition was organised. This Kala Utsav , 2002 was show the ingenuity of the students who enthusiastically tattooed and applied mehendi, drew portraits and calligraphy on the spot, printed T-shirts and gave demos in glass painting and mural design for the visitors.

The Industries and Mines Department also gave demonstration in Batik, Clay molding and bamboo weaving to the public.

4.27 V M SALGAOCAR COLLEGE OF LAW, MIRAMAR

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

M. Pinheiro, M.A., L.L.M., <i>Principal</i> , Law	Sandhya Ram, L.L.M., <i>Lecturer</i> , Law
C. D Souza, Ph. D., <i>Lecturer</i> , Law	Donald Rodrigues, L.L.M., <i>Lecturer</i> , Law
M. R. K. Prasad, M. L., <i>Lecturer</i> , Law	Vishwanath M., L.L.M., <i>Lecturer</i> , Law
G. Shaber Ali, L.L.M., <i>Lecturer</i> , Law	T. R. Subramanya, <i>Lecturer</i> , Ph. D., Law
Kim Coiuto, L.L.M., <i>Lecturer</i> , Law	Pearl Monteiro, L.L.M., <i>Lecturer</i> , Law
K. S. Rao, L.L.M., <i>Lecturer</i> , Law	G. K. Tamba, (Part time), L.L.B., <i>Lecturer</i> , Law -
B. S. Path, L.L.M., <i>Lecturer</i> , Law	S. A. Mandrekar, M. P.Ed., <i>Sports Director</i> , Sports

4.27.3 List of Visiting Scholars:(Name of Scholar, Institution, Title of Lecture, Date).

M. Pinhero, National Law School, Bangalore, Legal Aid, October, 2001.

4.27.4 Sponsored Research Projects sanctioned during the concerned academic year: (Name of Investigators, Topic, Date of Sanction, Funding Agency, Amount).

M. Pinhero, M. R. K. Prasad, Human Rights of Children, December 2001, British Council.

M. Pinhero & Carmo D'Souza, National Law School, Bangalore, October 2001.

4.27.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Department).

Carmo D'Souza, Human Rights of Children, Law College, November 2001.

4.28 V V M's GOVIND RAMNATH KARE COLLEGE OF LAW, MARGAO

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

A. S. Nadkarni, L.L.M., <i>Principal</i> , Law	Part Time Lecturer:
R.V. Kuncolienkar, L.L.M., <i>Lecturer</i> , Law	J. G. Prabhudesai, L.L.M., <i>Lecturer</i> , Law
C. J. F. Prasannakumar, L.L.M., <i>Lecturer</i> , Law	T. Jacques, LL.B., <i>Lecturer</i> , Law
Mesquita da Silva Saba, L.L.M., <i>Lecturer</i> , Law	J. Antao, LL.B., <i>Lecturer</i> , Law
Sonali Naik, L.L.M., <i>Lecturer</i> , Law	C. Coutinho, L.L.M., <i>Lecturer</i> , Law
M. Hede, M.P.Ed., <i>Director</i> , Phy. gdn. Sports	Sarojini Da Costa, L.L.M., <i>Lecturer</i> , Law

4.28.3 List of Visiting Scholars: (Name of the Scholar, Institution, Title of Lecture Delivered, Date).

Justice P. V. Hardas, Atmaram Nadkarni, Saresh Lotlikar, M. P. Shinkre Memorial Lecture, "Criminalisation of Politics", 15th March 2002.

4.28.5 Seminars /Conferences/Workshops, etc.

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

Union dget, 6th March 2002,

(b) (i) Attended: Seminars/Conferences: (Name of Teacher, Name of Organising Institute, Place, Dates, Title of Paper).

Da Silva Saba Vincent, Indian Society of International Law, Delhi, 4th - 7th October 2001, "Legal Regime and Judicial Response to Asylum".

A. S. Nadkarni, NALSAR, Hyderabad, 22nd - 24th April 2002, 'Legal Education and Education Reforms'.

4.28.9 Achievements: (Ranks/Merit in the University Examinations/Sports Activities).

(a) Academic: (Name of the Student/Team, Achievement)

Ferrao Ranjana stood Second at the T.Y.LL.B. Examination of Goa University held in April, 2002 securing 68% marks.

(b) Sports: (Name of the Student/Team, Achievement).

Inter-collegiate Women Tennikoit Championship.

Andrew Gomes, 1 gold and 1 silver medal.

Job Jaishal has bagged one bronze medal at the Inter collegiate Weight Lifting and Power-lifting Chem' Jivan Bandekar, Gold Medal at the Inter-collegiate Judo Championship and was adjudged as the best Ju Suraj Prabhudesai, silver medal at the Inter-collegiate CyclingEvent.

Prashant Ponginkar, Gold Medal at the Inter-collegiate Swimming Championship.

Uvena Fernandes, three gold medals and one bronze medal, Inter-collegiate Athletic Meet and was adjl the fastest women athlete, also represented Goa State Football Team.

Mary Fernandes represented Goa State at the Sr. National Tennis Ball Cricket Tournament.

4.28.10 Any other information:

(c) Any other special achievement by Staff:

Students have opened Legal Aid Cells in South Goa for the benefit of the general public and with the he teachers they are guiding the local people in legal matters and providing free assistance to the n addition Legal Aid clinics-were also conducted at Loutolim and Colva in association with South Goa Legal Aid Society.

4.29 GOA DENTAL COLLEGE AND HOSPITAL, BAMBOLIM.

4.29.1 List of the Teaching Staff: (Name, Qualifications, *Designation*, Subject).

R. K. Singh, M.D.S., Dean, *Prof & Head*, Prosthodon.

Meena Aras, M.D.S., *Asst. Professor*, Prosthodontics

Vidya Chitre, M.D.S., *Asst. Professor*, Prosthodontics

Aparna Batra, M.D.S., *Lecturer*, Prosthodontics A.

S. Fernandes, M.D.S., *Lecturer*, Prosthodontics

I. F. E Coutinho, M.D.S., *Lecturer*, Prosthodontics

P. K. Chandra, M.D.S., *Professor & Head*, Orthodon.

Anna C. Vaz, M.D.S., *Asst. Professor*, Orthodontics

Nandini Kamat, M.D.S., *Lecturer*, Orthodontics

A. D. Dinkar, M.D.S., *Prof & Hd.*, Oral Med. & Radio.

P. Ambarkar, M.D.S., *Asst.Prof*, Oral Med. & Radio.

S. V. Patil, M.D.S., *Lecturer*, Oral Medicine & Rad.

I. de N. de Ataide, M.D.S., *Prof & Head*, Con. Dent.

R. Wagle, M.D.S., *Asst.Prof*, Conservative D

Jyoti R. Rao, M.D.S., *Professor & Head*, Peni

James Samuel, M.D.S., *Asst. Professor*, Periol

Gauri Sardessai, M.D.S., *Lecturer*, Periodont

A. Kenkre, M.D.S., *Professor*, Com. Dentistn

Vikas Dhupar, M.D.S., *Asst. Professor*, Oral

Francis Akkara, M.D.S., *Lecturer*, Oral Surge

Shubha Hegde, M.D.S., *Leccturer*, Oral Surge

S. Rodrigues, M.D.S., *Lecturer*, Pedodontics

Anita Spadigum, M.D.S., *Professor*, Oral Pati

Anita Dhupkar, *Assn. Professor*, Oral Patholo

S. Badbade, M.D.S., *Lecturer*, Oral Pathology

4.29.4 Sponsored Research Projects sanctioned during the concerned academic year: (Name of Invest Topic, Date of Sanction, Funding Agency, Amount).

Nadia Pinto & Steven Rodrigues, Levels of trauma to anterior teeth in school children in Goa, Septe October 2001.

4.29.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Department).

(i) Workshop on occupation health, 25th January 2002, Factories and Boilers, A Itinho, Community Dent

(ii) 4th Goa State Dental Conference NCE, 29th - 30th September, I. D. A. Goa branch, Conservative Den

(b) (i) Attended:Seminars/Conferences:(Name of Teacher, Name of Organising Institute, Mao Title of Paper).

Amita Kenkre, Goa I. D. A. Conference, Cida de Goa, 29th - 30th September 2001, Amladipine I enlargement

Aquaviva S. Fernandes, I. D. A. Goa, September 2001, Evaluation of Intensity of light cure unit.

4.29.6 Publications :(a)Research Articles:(Name, Title, Journal, Volume, Month/Year).

Aquaviva S. Fernandes, Fracture Resistance of Post-core, International journal of prosthodontics, I 2001.

R. K. Singh, Meena Aras, Vidya Chitre, i) Customised cores over pre-fabricated posts using pre Restoration - A case report, The journal of Indian prosthodontics society, I No., 2 June 21

Functional and Esthetic Rehabilitation of a patient with a highly resorted Asymmetric Residual Ridge, The journal of Indian prosthodontics society, 1 Bo.4 December 2001.

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

Lemos Godinho Aldrin, stood first in class in May 2002 final B.D.S. Goa University Examination. Usgaonkar Anant N., stood second in class in May 2002 final B.D.S. Goa University Examination. Prabhudessai Vallabha secured highest marks in pedodontics subject and is eligible for award by Indian Society of Pedodontics and Preventive Dentistry.

Bandodkar Kranti secured highest marks in periodontics and is eligible for award given by Indian Society of periodontics.

4.29.10 Any other information:

Adequate Gymkhana facilities are provided for indoor games such as Carom, Table Tennis. Foot ball. Basketball, Volley ball etc. and Athletics. All the facilities are provided in the college.

4.30 GOA COLLEGE OF ARCHITECTURE, CAMPAL

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

J. Mehta, M.Arch.. Prof & Principal, Architecture	Zecnat Anthill. B. Arch.. Lecturer, Architecture
A. R. A. Antao, Dip. Arch.. Asst. Prof, Architecture	Salvin Dias, B. Arch., Lecturer, Architecture
A. K. Rego, M.Arch., Asst. Professor. Architecture	Roy D'souza. B. Arch., Lecturer, Architecture
M. Dixit Navare, M.Arch., Asst. Professor, Architecture	S. Belurkar. B. Arch., Lecturer. Architecture
L. Rodrigues, G.D. Arch, Lecturer, Architecture	V. R. Signapurkar, B. Arch.. Lecturer, Architecture

4.30.2 Highlights of the Research Activities:

A. Research and Design cell has been set up in the College with the following objectives:

1. To promote and project the ideology of the College.
2. To preserve (and duplicate if necessary) the work done by the Students/College during 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 back-up facility for consultancy projects taken up by the College.

B. A research topic momentarily titled 'Dos and Don'ts in Local Goan Houses'. targeting mainly students of Architecture (however others also may find it useful) is being attempted to make aware of constructional and design mistakes and to remedial and of better alternatives to avoid such mistakes.

4.30.3 List of Visiting Scholars: (Name of Scholar, Institution, Title of Lecture Delivered. Date).

M. Bhatia, Practicing Architect Urban Designer, Mumbai, Mumbai-Past & Future Urban Design Considerations, 19th August 2002.

• 15 Seminars/Conferences/Workshops, etc.

(b) (i) Attended: Seminars/Conferences: (Name of Teacher. Name of Organising Institute. Place. Dates, Title of Paper).

Jaimini Mehta, GEC, Farmagudi, January 2002, Conference on Technical Education.

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

Jaimini Mehta, Kurula Varkey Design Forum, CEPT Ahmadabad, Critic.

Sanjay Befarkar, Kurula Varkey Design Forum, CEPT Ahmadabad, Observer.

4.30.6 Publications: (a) Research Articles: (Name, Title, Journal, Volume. Month/Year).

Ashish K. Rege, (i) Conservation of Traditional Urban Housing in the Context of Margit^o In Goa. II A (30a Chapter, WRC Zone, April 2002. (ii) Margao: Retrospection and Future Options, Institute of Menezes Braganza, Panaji, Vol. 111 No. 1, June 2001.

(b) Books: (Name, Title, Publisher/Year).

Jaimini Mehta, Analogues of Architecture. Shenal Shah Ahmadabad. 2002.

Ashish K. Rege, Goa:Educationa; Institutions Through the Ages, 'Futuristic Approach of co-ordinate Documentation & the modernation for Goa Archives, Panaji- Goa, Directorate of Archives an Archives and Archeology, Goa of Goa. April 2002.

4.30.7 Sponsored Consultancy Work Undertaken: (Name of Teacher. Nature of Consultancy, Name o the Sponsorer, Duration of Consultancy, Amount).
GCA, Traffic Survey, EDC, 2 weeks, Rs. 30,000.

4.30.9 Achievements: (Ranks/Merits in the University Examinations/Sports Activities).
Gadgil Anup Moreshwar, 1 s' rank, fifth year Architecture Examination, Goa University, May 2002.

4.31 GOA COLLEGE OF MUSIC, ALTINHO, PANAJI

4.31.1 List of the Teaching Staff: (Name, Qualifications, *Designation*, Subject).

K. B. Naik, M.A. M. Music, *Principal*, Vocal Music **M. Das**, M. Music, *Lecturer*, Instr. Music (Sitar)
S. S. Karandikar, M. Music, *Lecturer*, Vocal Music **U. Velingkar**, M. Music, *Lecturer*, Instr. Music (T

4.31.5. Seminars/Conferences/Workshops, etc.

(a) Organised : (Title/Theme, Dates, Funding Agency, Name of Department).

Workshop on Yoga by Sitakant Ghanekar, 25th September - 1st October 2001 & 7th - 10th January 2002, I Goa College of Music.

Workshop on Tabla conducted by Pt. Sudhir Mainkar from Mumbai 4th — 5th December 2001, Govt.Goa Cc of Music.

Workshop on Vocal music conducted by Vikas Kashalkar, a well known vocalist from Pune, 19th - February 2002, Govt. Goa College of Music.

Seminar on Music for the Principals/Headmasters of Secondary & Higher Secondary Schools: **Introducti** Music as an optional subject in Secondary & Higher Secondary Education', 1 1th March, Government, College of Music.

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

For the Academic year 2001-2002, four students appeared for the fifth year final examination for Vocal , 1 of which 2 students passed securing first class and 2 students passed with second class.
Shivram N. Mopkar of Tabla stood first securing 73.43 % of marks.

4.32 INSTITUTE OF NURSING EDUCATION, PANAJI

4.32.1 List of the Teaching Staff: (Name, Qualifications, *Designation*, Subject).

Carol Noronha, M.Sc., Nursing, *Principal*
Ana Route, M.Sc., Nursing, *Lecturer*
F. Rodrtigues, M.Sc., Nursing, *Lecturer*
A. Almeida, B.Sc., Nursing, *Clinical Instructor*

Remmy Lacerda, P.C.B.Sc., Nursing, *Clinical hist*
Mariana D'Costa, P.C. B.Sc., Nursing, *Clinical In.*,
Kalyani Sawant, P.C. B.Sc., Nursing, *Clinical Inst*
S. Yadav, B.Sc., Nursing, *Clinical Instructor*

4.32.5 Seminars/Conferences/ Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agencies, Name of Department).

Two workshops on Development Professional Skill, 7th - 18th June 2001, 20th - 30th June 2001, Govt. of 1 Ministry of H. & Family Welfare Dept. of Health, Institute of Nursing Education, Panaji.

4.33 G V M'S COLLEGE OF EDUCATION, PONDA

4.33.1 List of Teaching Staff: (Name, Qualification, *Designation*, Department).

Louis Vernal, Ph.D., *Principal*, Education
Allan J. Abreo, M.A., M.Ed., *Lecturer*, Education
Paily M.U., Ph.D., *Lecturer*, Education
Sebastian J. Pinto, M.Ed., *Lecturer*, Education

Ganesh C. Naik, M.Phil., *Lecturer*, Education
A. Neena George, M.Sc., M.Ed., *Lecturer*, Educa
Sunil Kumar, M.Sc., M.Ed., *Lecturer*, Education
Jojen Mathew, Ph. D., *Lecturer*, Education

Sanjay R. Govenkari, M.Ed., *Lecturer*, Education
Samir V. Naik, M.A., M.Ed., *Lecturer*, Education

Pratima S. Dessai, M.Ed., *Lecturer*, Education

4.33.5 Seminars/Conferences/ Workshop, etc.

(b) (i) Attended: Seminars/Conferences: (Name of Teacher, Name of Organising Institute, Place Dates, Title of Paper).

Louis Vernal, (i) NCTE: Consultative Meeting of Master Trainees on the use of CDs, Goa, NCTE, Goa, 24th 25th July 2001. (ii) "The Teacher Education and Society", NCTE, Bhopal, 19th 21st September 2001 Teacher Education & Social Transformation. (iii) National Seminar on Human Rights & Fundamental Duties with their relevance to Teacher Education by IASE, Vidya Bhavan, Udaipur, 26th - 28th November 2001, Teacher Education and Human Rights.

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

Paily M.U., Samir V. Naik, Sanjay Govenkari,)XXV Annual International Conference of Indian Association of Teacher Education, Karnataka Open University Mysore, 27th - 29th December 2001.

4.33.6 Publications: (a) Research articles: (Name, Title, Journal, Volume, Month/Year).

Louis Vernal, (i) What is Good School?, New Frontiers in Education, April-June 2001. (ii) Evaluation vis-a-vis Assessment Alternatives, New Frontiers in Education, January-March 2002. (iii) Curriculim-Disciplines or Integration, Teacher Education in Turmoil (Book) Sterling Pub., January 2002 (iv) Training for Christian Priesthood, Teacher Education in Turmoil (Book) Sterling Pub.

Anna Neena George, Science for life and of life, Teacher Plus. March - April 2002.

4.33.9 Achievements: (Ranks/Merits in the University Examination/Sports Activities).

Naik Rukma D., II Rank, Goa University, April 2002, B.Ed. Examinations.

4.33.10 Any other information:'

Department of Extension Services organised workshops during the academic year 2001-02011:

- Various skills (Study, handwriting, communication).
- Methodology (Towards better lessons, "From Teaching to learning")
- Procedures (Question paper settings, Unit planning, Office).
- Resource Developments in academic subjects with Department of Education.

4.34 BSP'S GOMANTAK AYURVEDA MAHAVIDYALAYA & RESEARCH CENTRE SHIRODA

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

S. S. Hiremath, MD, *Principal*, Kayachikitsa
Anura Bale, MD, Ph.D., *Reader*, Sharir Kriya
Neelesh Korde, MD, Ph.D., *Reader*, Sharir Rachana
N. Samaga, MD, Ph.D., *Lecturer*, Dravyaguna
U. Dixit, MD, Ph.D., *Lecturer*, Samhita
Anil Panse, MD, Ph.D., *Lecturer*, Kayachikitsa
M. Dixit, MD, *Lecturer*, Swasthavrutta
M. Joshi, MD, Ph.D., *Lecturer*, Charak Samhita Siddhant
S. Gujjarwar, MD, *Lecturer*, Shalyatantra
S. Tenge, Kavyateertha, *Lecturer*, Sanskrit
M. Suradkar, MD, *Lecturer*, Kayachikitsa

S. Bhatne, MD, *Lecturer*, Shalakyatantra
S. Karlekar, MD, *Lecturer*, Streeroga
R. Ayyagari, MD, *Lecturer*, Kayachikitsa
S. Hebli, BAMS, *Lecturer*, Sharir Kriya A.
Pol, MD, *Lecturer*, Roganidan Vikriti Vidnyan V.
Garud, MD, *Lecturer*, Roganidan Vikriti P.
Bhagwat, MD, *Lecturer*, Sharir Rachana S.
Ojha, MD, Ph.D., *Reader*, Kayachikitsa
T. Kanti Mandal, MD, *Lecturer*, Dravyaguna/Agad
N. V. Bhaskar Reddy, MD, *Lecturer*, Rasashastra
V. Joshi, MD, *Lecturer*, Samhita Siddhanta

4.35 GOA MEDICAL COLLEGE & HOSPITAL, BAMBOLIIVI

4. 35.1 List of Teaching Staff : (Name, Qualifications, *Designation*, Department).

V. G. Dhume, *Dean*

DEPARTMENT OF PHARMACOLOGY

V. G. Dhume, MD, *Professor*

S. S. Hede, MD, *Assoc. Professor*

J. S. C. Pereira, MD, *Assoc. Professor*

S. A. Bhounsule, MD, *Asst. Professor*
P. N. Bhandare, MD, DGO, *Lecturer*
P. V. Rataboli, MD, *Lecturer*
Sunita B. De Sa, MD, *Asst. Lecturer*
I. A. Pereira, MD, *Asst. Lecturer*
Princy Patatty, MD, *Asst. Lecturer*
Yogeeta Tanksali, MD, *Asst. Lecturer*
Lois J. Samuel, MD, *Asst. Lecturer*

DEPARTMENT OF OPHTHALMOLOGY
Pradeep G. Naik, M.S. *Professor & Head*
Ugam Usgaonkar, M.S., *Assoc. Professor*
Vivek Naik, M.S., *Asst. Professor*
Ravindra Panandikar, M.S., *Lecturer*

DEPARTMENT OF MICROBIOLOGY
M. P. Verenkar, MD, *Professor & Head*
Savio Rodrigues, MD, *Assoc. Professor*
N. V. Kharangate, MD, *Assoc. Professor*
Venkatesh Naik, MD, *Asst. Professor*
M. J. W. Pinto, MD, *Lecturer*
Padamjit Singh, MD, *Asst. Lecturer*
Ramona D'Souza, MD, *Asst. Lecturer*
Gurleen Kaur, MD, *Asst. Lecturer*
S. Estebeiro, MD, *Asst. Lecturer*
S. Parsekar, M.B.B.S., *Asst. Lecturer*

DEPARTMENT OF GYNAECOLOGY
Prasad Newekar, MD, *Professor & Head*
Anjali Kamat, MD, *Assoc. Professor*
Savita Chandra, MD, *Assoc. Professor*
Guru P. Pednekar, MD, *Asst. Professor*
Manjusha Jindal, MD, *Asst. Professor*
Eugene D'Silva, MD, *Lecturer*

DEPARTMENT OF SKIN & V.D.
M. F. M. Miranda, DNB, *Professor & Head*
Pankaj Shukla, M.D., *Assoc. Professor*
Rakhi Prabu Dessai, M.D., *Lecturer*

DEPARTMENT OF ENT
C. P. Das, MBBS, MS, *Professor & Head*
H. C. Guel, MBBS, MS, *Assoc. Professor*
S. Chodankar, MBBS, DNB, *Asst. Professor*
Carnegie D' Sa, MBBS, DCO, DNB, *Lecturer*

DEPARTMENT OF BIOCHEMISTRY
Asha Naik, MD, *Professor & Head*
Prafulla Nadkarni, MD, *Assoc. Professor*
Chitra Dhume, MD, *Lecturer*
Tanuja Kamat, MD, *Lecturer*
Manisha Audi, MD, *Asst. Lecturer*
Jano Zore, MBBS, *Asst. Lecturer*
Carlos Menezes, MD, *Asst. Lecturer*

**DEPARTMENT OF PREVENTIVE & SOCIAL
MEDICINE**
D. D. Motghare, MD, *Professor & Head*

A. M. A. Ferreira, MD, *Assoc. Professor*
K. A. Quenim, MD, *Assoc. Professor*
Jagadish A. Cacodcar, MD, *Asst. Professor*
Vanita Pinto, MD, *Lecturer*
V. D'Souza, M.A., D.P.E *Lecturer, Health E*
M. S. Kulkarni, M.Sc, *Lecturer. Demography*
Y. D. Prasad, Ph. D., *Lecturer. Statistics*
Gokuldas H. Gaude, MBBS, *Asst. Lecturer*
Nitin Dhupdale, MD, *Asst. Lecturer*
Amit Dias, MD, *Asst. Lecturer*
Frederick Vaz, MBBS, *Asst. Lecturer*
Archana Velip, MBBS, *Asst. Lecturer*

DEPARTMENT OF PATHOLOGY
Nisha S. Nadkarni, MD, *Professor & Head*
R. G. W. Pinto, MD, *Assoc. Professor*
M.V. MaIlya, MD, *Assoc. Professor*
Avril Dias, MD, *Assoc. Professor*
Francisco F. D. Couto, MD, *Assoc. Professor*
Pramila Souza Rocha, MD, *Asst. Professor*
Suresh R. S. Madrekar, MD, *Lecturer*
Sanjyot A. Nadkarni, MD, *Lecturer*
Sangeeta Amonkar, MD, *Lecturer*
Sachin Palyekar, MBBS, *Asst. Lecturer*
Domnic Lobo, MD, *Asst. Lecturer*
Seeta Pai Raiturkar, MD, *Asst. Lecturer*
Veronica M. Rebello, MD, *Asst. Lecturer*
Peter Rodrigues, MBBS, *Asst. Lecturer*
Rajika Bhat, MBBS, *Asst. Lecturer*
Sushma Belurkar, MBBS, *Asst. Lecturer*

DEPARTMENT OF T.B. & CHEST DISEASES
A.M. Mesquita, MD, *Professor*
Durga Lawande, MD, *Assoc. Professor*
A.L.Da Costa, MD, *Asst. Professor*
Uday C. Kakodkar, MD, *Lecturer*
Lalita C. Fernandes, *Lecturer*

DEPARTMENT OF ANATOMY
A.V. Mainkar, MBBS, MS, *Professor & Head*
A. A. Nagarsenkar, MBBS, MS, *Assoc. Profes*
P. E. Natekar, MBBS, MS, *Assoc. l'rofessor*
U. P. Bliate, MBBS, MS, *Assoc. Professor*
Prakash Pai, MBBS, MS, *Asst. Professor*
M. P. Dias, MBBS, MS, *Lecturer*
R. N. Dubhashi, MBBS, MS, *Lecturer*
Deepa H. Kamat, MBBS, Ms, *Lecturer*
Uday N. Kudalkar, MBBS, *Asst. Lecturer*
Shreya S. Bhandare, MBBS, *Asst. Lecturer*
Neelam R. Madhale, MBBS, *Asst. Lecturer*
Madera C. D'Souza, MBBS, *Asst. Lecturer*
Fatima M. D'Souza, MBBS, *Asst. Lecturer*

DEPARTMENT OF FORENSIC MEDICINE
S. D. Sapeco, MD, *Professor & Head*
E. J. Rodrigues, MD, *Assoc. Professor*
Adarsh Kumar, MD, *Lecturer*

A. V. Fernandes, MBBS, *Asst. Lecturer*
M. S. Ghodkireker, MBBS, *Asst. Lecturer*
S. S. Banaulikar, MBBS, *Asst. Lecturer*
S. G. Perni, MBBS, *Asst. Lecturer*
G. G. Kamat, MBBS, *Asst. Lecturer*

DEPARTMENT OF PSYCHIATRY

J. M. Fernandes, MD, *Professor*
H. A. Borkar, MD, *Asst. Professor*
D. S. Kulcalekar, MD, *Asst. Professor*
Maria Y. de Silva Pereira, MD, *Lecturer*
Ashutosh P. Desai, MD, *Lecturer*

DEPARTMENT OF PHYSIOLOGY

M. E. Abraham, MD, *Professor*
A. S. Borkar, MD, *Professor*
F. Monteiro, MD, *Assoc. Professor*
S. D. Sahakari, MD, *Assoc. Professor*
M. D. Nagvekar, MD, *Asst. Professor*
J. R. Pednekar, MD, *Lecturer*
S. R. Sardessai, MD, *Lecturer*
S. S. Audi, MD, *Lecturer*
S. S. Pandarbale, MD, *Asst. Lecturer*
Nandita Pereira, MD, *Asst. Lecturer*
Isabelle Coelho, MBBS, *Asst. Lecturer*

4.35.2 Highlights of the Research Activities:

DEPARTMENT OF PHARMACOLOGY

1. Gastrointestinal Pharmacology: Experiments were carried out to see the effects of COX-2 inhibitors, Antimicrobials, Calcium channel blockers, Sildenafil, the combination of Paracetamol and other NSAIDs on ethanol induced gastric hemorrhagic lesions.

2. Experimental Pharmacology: Experiments were carried out to evaluate the effects of Non-selective COX and COX-2 selective inhibitors on autonomic ganglion and Prostaglandin release.

3. CNS Pharmacology: Experiments are being carried out to see the effect of "Anximind" an Ayurvedic preparation on anxiety, depression and obsessive compulsive disorders.

4. Clinical Pharmacology: a) Adverse Drug Reactions Monitoring is being done. b) Study of risk factors and pro-active measures to avoid fatal ADR's in hospitalised patients is being carried out.

DEPARTMENT OF MICROBIOLOGY

1. Bacteriology of Diabetic foot ulcers. 2. Study of Filariasis in migrant labour population in Goa. 3. Speciation and characterisation of Candida species isolated from various clinical samples. 4. HSV and HBSAg positively in HIV positive persons. 5. Prevalence of HIV seropositivity in migrant labour population in Goa. 6. Prevalence of anti HCU antibodies in HIV positive persons.

DEPARTMENT OF GYNAECOLOGY

Current Research Activities:

1. Pilot study on Emergency Contraception with Cut 200B and 0.75 Levenorgestrol 2 doses, Prasad Nevrekar

2. The view of males in family planning practices, Prasad Nevrekar

3. Hormone replacement therapy in Menopausal women, Prasad Nevrekar

4. Clinical trial with Lunelle monthly injectable contraceptive, Prasad Nevrekar

5. Review of 50 cases of ectopic pregnancies, Prasad Nevrekar

6. Therapeutic trial on minoprost (Vaginal) in induction of labour, Savita Chandra.

7. Review of caesarean section in Goa Medical College, Savita Chandra

8. Effect of drotaverine on augmented labour, Anjali Kamat

9. Review of ovarian malignancy, Anjali Kamat

DEPARTMENT OF SKIN & VD.

Topics of Research:

1. Study of dermatological manifestations in diabetics. 2. Dermatoses associated with HIV. 3. Clinical and bacteriological study of skin infections.

DEPARTMENT OF BIOCHEMISTRY

Ongoing Research Projects:

1. Alkaline Phosphates Isoforms Malignant conditions. 2. Antioxidant status in NIDDM. 3. Asha Naik, Chitra Dhume, Jano Zore, Carlos Menezes, Antioxidant status in overt myocardial infarction and stress test subjects.

DEPARTMENT OF PREVENTIVE & SOCIAL MEDICINE

A Qualitative concurrent evaluation study on "Family Health Awareness Campaign 2002" was completed which studied the participation of the people in the campus arranged by Directorate of Health Services in collaboration with National AIDS Control Organisation. The study focused on HIV/AIDS education and treatment of RTI-STD's. **The study also evaluated program implementation and ways of improving the utilisation of services offered by the program. The components of program management, social mobilisation, and impact and client behavior were also evaluated. The study helped to evolve guidelines to make such programs more successful in future to enable coming generations to prevent Reproductive Tract Infections and Sexually Transmitted Infections. The overall social mobilisation campaign needs improvement. So far the client behavior is concerned; some of the prevalent socio-cultural beliefs about causes, effects and treatment of HIV/AIDS and RTI-STD's might have adversely influenced the participation of clients in Family Health Awareness Campaign 2002.**

DEPARTMENT OF PATHOLOGY

1. Clinicopathological study of tumors of gastrointestinal tract.
2. Cytohistological correlation of Neck Lymph Nodes.
3. Incidence nature and pattern of ovarian tumor.
4. **Histopathological study of Brain tumors and tumors like lesions with its clinical correlation.**
5. **Incidence, nature and pattern of ovarian tumors in Goa.**

DEPARTMENT OF ANATOMY

Study on growth of fungus on cadavers was extended to the mortuary attached to Department of Forensic Medicine. The fungus was cultured and isolated and attempts are made to see how such growth can be controlled so that it does not pose any health hazards.

DEPARTMENT OF FORENSIC MEDICINE

Study on growth of fungus on cadavers was extended to the mortuary attached to Department of Forensic Medicine. The fungus was cultured and isolated and attempts are made to see how such growth can be controlled so that it does not pose any health hazards.

DEPARTMENT OF PSYCHIATRY

The research activities in I.P.H.B. includes preparation of thesis as a requirement for the M.D. (Psychiatry); Besides his other research activities in various subjects in the field of alcohol, Geriatrics, Hypnotherapy, by the various faculty members, which include Prison Psychiatry and Clinical Psychiatry.

4.35.4 Sponsored Research Projects sanctioned during the concerned academic year: (Name of Investigators, Topic, Date of Sanction, Funding Agency, Amount).

Prasad Nevrekar, Shantaram Surne, (i) Pilot on E.C. with CuT 200B & 0.75 LNG, April 2001, ICMR. (ii) Clinical trial with Lunelle Monthly Inj., April 2002, ICMR. (iii) Hormone Replacement therapy in Menopausal women, August 2002, ICMR. (iv) The view of **males in family planning practices, September 2002, ICMR.** (v) **Knowledge attitudes & Practices of Breast feeding, September 2002, ICMR.**

D. D. Motghare, A.M.A. Ferreira, K.A. Quenim, Jagdish Cacodkar, "Concurrent Evaluation of Family Health Awareness Campaign 2002, February 2002, All India Institute of Medical Sciences New Delhi and Indian Clinical Epidemiology Network.

D. D. Motghare, M. S. Kulkarni, Vidal D' Souza, "Sentinel Surveillance under National Programme of Control of Blindness", April 2000, Government of India, Ministry of Health & FW, DGHS

(Ophthalmology Section), Rs. 75,000/- per annum.

4.35.5 Seminars /Conferences/ Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Department).

Workshop on RCH for Medical Officers DHS, April, 2002, DHS, OBG.

MTP & Family Planning Workshop, DHS, OBG.

Reorientation training in reproductive health including family planning services, antenatal & postnatal care,

STD including HIV and AIDS given to medical officers and paramedical staff DHS, OBG.

IUCD workshop for Medical Officers, DHS, OBG.

STDS & HIV, 28th August 2002, GSAOS, Skin & V.D.

Leprosy - Diag and Management, 22nd October 2002, Leprosy Society, Skin & V.D.

Chemotology & Live ear survey, 2nd March 2002, GMC Bambolim, ENT.

"Leprosy Update for Postgraduate Medical Students" of Goa Medical College, 25th January 2002, Acworth Leprosy Foundation, Mumbai, Preventive and Social Medicine, Goa Medical College.

Orientation Training Programme for interns of Goa Medical College, January 2002, Goa Medical College, Preventive and Social Medicine, Goa Medical College.

(b) (i) Attended: Seminars/Conferences:
(Name of Teacher, Name of Organising Institute, Place, Dates, Title of Paper).

Prasad Nevrekar, Panaji Obst.& Gynaec. Society, Panaji, ICOG-CME, Panaji, October 2002, AIDS the present scenario.

Savita Chandra, KSOG XIV Conference, KLE Belgaum, October 2001, Prيناتal Morbidity in the Live born low birth weight babies.

M. F.M.Miranda, IADV L, Cochin, 25th January 2002, Review of Trichoepitheliomas & Chromoblastomycosis.

Manjusha Jindal, Panaji Obst .& Gynec. Society, Panaji, ICOG-CME, Panaji, October 2002, IUGR.

Eugene D' Silva, Panaji Obst. & Gynaec. Society Panaji ICOG-CME, Panaji, October 2002. DUB, New

concepts.

M. S. Kulkarni, Indian Society of Medical Statistics, Lucknow, UP, December, 2001, "Potential years of Life Lost due to premature mortality in Goa".

Frederick Vaz, Indian Association of Preventive and Social Medicine, Sewagram, Maharashtra, February 2002. "Study of noise induced hearing loss in aviation personnel".

Durp Lawande, (i) 57th National Conference on TB & Chest Diseases by TB Association of Goa, 26th - 29th September 2002, Pattern of acquired Drug Resistance in Pulmonary TB, Goa Medical College — Scenario. (ii) Delivered a lecture in CME of the above National Conference on 26th Septembfr • 2094,, Management of difficult asthma.

A. L. Da Costa, (i) Delivered a lecture in CME of 57th National Conference of TB & CD, 26th September 2002. TB Association of Goa & DHS, Revised National TB Control Programme Status Level. (ii) Training in RNTCP held in LRS Institute of TB & Chest Diseases, New Delhi, I 1^h. 13^h July 2002, Undergone training in RNTCP as State level trainer.

Uday C. Cacodcar, 57th National Conference on TB & Chest Diseases, TB Association of Goa & DHS, Goa. Kala Academy Panaji-Goa, 26th July 2002, The pattern of Acquired Drug

Resistance in Pulmonary Tuberculosis - A Goa Medical College Scenario at Goa, Overview on Pulmonary Tuberculosis.

Lalita Fernandes, (i) Delivered lecture in CME of 57th National Conference of TB & CD, 26th September 2002. TB Association of Goa & DHS, Community Acquired Pneumonia. (ii) Attended workshop on I HIV/AIDS, 17th July 2002, GSACS.

Deepa H. Kainat, 49th National Conference of Anatomical Society of India Manipal, Manipal. 28th - 30th December 2001, "Gross Anomalies of Phenobarbitone on the chick Embryo".

E. J. Rodrigues, A.V. Fernandes, M. S. G. Ghodkirekar, S. G. Perni, XXIII Annual Conference of Indian Academy of Forensic Medicine, 12th - 14th January 2002, Jamnagar, Gujrat, E. J. Rodrigues presented a paper, "Bulleetus".

E. J. Rodrigues, M.S.G, Ghodkirekar, S.G. Perni, X Annual State Conference of Karnataka Medico Legal Society, Banglore, 9th - 10th February 2002, E. J. Rodrigues presented a paper on "Unusual Periele Swellings", M.S.G.Ghodkirekar presented a paper on "Traumatic vulvul haematoma following forcible coits". He was awarded r^d best prize for the scientific paper at the said conference.

J. M. Fernandes, `Depot preparation in management of Psychosis', 4th Annual National CME Military Psychiatry, AFMC, Pune, 10th - 11th August 2002.

Yvonne de Silva Pereira, 32nd Annual Conference of Indian Psychiatric Society, West Zone " Geriatric patients

attending tertiary care Psychiatric hospital", October 2001, Nanu Resort Betalhati, Salcete Goa.

Mita Muzumdar, "Stress and Anxiety in parents of mentally retarded children", 32nd Annual Conference of

Indian Psychiatric society, West Zone, October 2001, Nanu Resort, Betalhati, Salcete Goa.

S. D. Sahakari, Annual Conference of APPI at AFMC, Pune, 21st - 24th December 2001, Effect of Ethanol on

reproductivity, Pup survival and organ weights in albino rats.

S. R. Sardesai, Annual Conference of APPI, AFMC, Pune, 21st - 24th December 2001, Effect of REM sleep deprivation on B. W., F.I. fluid intake and B.T. in albino rats.

S. Nantiyal, Savio R., MJW Pinto, MP Verenkar, Poster presentation at XXV Annual Congress of Indian Association of Medical Microbiologists, AIIMS, New Delhi, 22nd-25th November 2001 Cryptosporidium related diarrhea in HIV

infected individuals.

- N. Pereira, MJW Pinto, Ramona D'Souza, S. Rodrigues, MP Verenkar, Poster presentation at XXV .r Congress of Indian Association of Medical Microbiologists, ALIMs, New Delhi, 22nd Nov 25th November 2001, Malaria in Goa-A six months study. •
- M. J. W Pinto, P. Singh, Gurleen K., S. Rodrigues, AN Jadhav, Poster presentation at XXV Annual cc of IAMM, New Delhi 22nd - 25th November 2001; Cellulitis caused by *Aeromonas hydrophila* - report.
- V. A. Singh, S. Rodrigues, Anita SE, NV Kharangate, MP Verenkar, Poster presentation at XXV / congress of IAMM, AIIMS, New Delhi, 22nd - 25th November 2001; Seroprevalence of Toxoplasma in primigravid women in Goa.
- P. Singh, S. Rodrigues, Aisha Naik, MP Verenkar, poster presentation at XXV Annual congress of I, AIIMS, New Delhi, 22nd - 25th November 2001; An outbreak of cholera in Goa.

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

- Savio Rodrigues, Teacher's Training, Pondicherry (Jipmer).
- C. P. Das, (i) KIE Hospital, Belgaum, 11th - 12th May 2002, Temp. bone dissections. (ii) KIM, Hubli, 25th July 2002, Rhinoplasty. (iii) K. S. Hegde Med. Academy, Derakatte, CME & Otolaryngology survey.
- D. D. Motghare, "Concurrent Evaluation of Family Health Awareness Campaign" 2002, New Delhi, Feb 2002.
- A. M. Ferreira, "Reproductive Tract Infections", Mumbai, April, 2002. "Concurrent Evaluation of 1 Health Awareness Campaign", 2002, New Delhi, February 2002.
- Jagdish Cacodcar, Workshop on "National Level Training in RNTCP & DOTS", New Delhi, June 2002.
- M. P. Dias, Deepa Kamat, "Lecture - a method of teaching", Goa Medical College, Methodology of Teaching
- Deepa Kamat, Medera Souza, I.C.M.R. workshop on Emergency Contraception, N.I.O., Dona Emergency contraception.
- E. J. Rodrigues, S. G. Perni, G. S. Kamat and S. S. Banaulikar, CME & Medicolegal workshop, 23rd Sept 2001, J. J. M. Medical College, Davangere, Karnataka.
- E. J. Rodrigues, training workshop on HIV/AIDS, 21st - 23rd August 2000, Goa Aids Control Society, 01 Medical College Complex, Panaji.
- J. M. Fernandes, 4th Annual CME Military Psychiatry, AFMC, Pune, 10th - 11th August 2002.
- Yvonne de Silva Pereira, 32nd Annual Conference of Indian Psychiatric Society, West Zone, Nanu Resort Betalbat, Salcete Goa, October 2001.
- J. R. Pednekar, Workshop on Medical Education, G.M.C. Bambolim, 4th - 6th October 2001. S.
- D. Sahakari, Medical Education, G.M.C., Bambolim, 21st - 22nd February 2002.
- S. S. Audi, Medical Education, G.M.C., Bambolim, 21st - 22nd February 2002.
- Sandeep Sardesai, Workshop on Medical Ethics, G.M.C., Bambolim, 2nd August 2002.
- 4.35.6 Publications: (a) Research articles: (Name, Title, Journal, Volume, Month/Year).
- E. J. Rodrigues, P. V. Rataboli, A.V. Fernandes, Fatal Accidental strychnine poisoning in mother and sr case report, Journal of Academy of Forensic Medicine, Vol. 23 No. 5, July-Sept. 20(1).
- Padma N. Bhandare, Teratology: Principles and Practice, Journal of XIII Goa IMA Conference. Sept 2001.
- Pinto MJW, Rodrigues S., D'Souza R. Verenkar M.P., usefulness of OBC parasite detection system in dial of Malaria, IJMM, 19 (4) :219-221,2001.
- Savita Chandra, Perinatal Mortality and morbidity with low birth weight in new born., Accepted by I Journal of OBG, October 2002, April-May 2002.
- M. F. M. Miranda, Pyoderma gangrenosum on case report, IJDVL, 68, May-June 2002.
- Lalita Fernandes, A.M. Mesquita, Non Occupational Pleural Mesothelioma, Current Medical Trends, 6/2, 2002.
- Rodrigues E. J. & Sapeco S.D., (2001): Statutory rape and Homicidal hanging - A case report JIAFM, 23: 75.
- Rodrigues E. J., Rataboli P.V. & A.V. Fernandes (2001) - Fatal accidental strychnine poisoning in mother - A case report.
- E. J. Rodrigues (2001), Medicolegal aspect of marginal type of hymen - A case report Journal of Karnataka Medicolegal Society, 10:2, 63-65.
- Yvonne de Silva Pereira, (i) "Stevens Johnson Syndrome in a bipolar patient treated with lamotrigine", 1 Journal of Psychiatry, April, 2002. (ii) "Geriatric patients attending tertiary care Psychiatric hospital Indian Journal of Psychiatry, October 2002.

M. D. Nagvekar & M.E. Abraham, Effect of cigarette smoking and 3.2% ethanol alone or together on RBC and Platelet counts in rats, *Indian Journal of Physiology and Pharmacology*, Volume — 46, No. 3, Jul 2002.

S. S. Audi & M. E. Abraham, Effect of cigarette smoke on reproductivity in albino rats, *Indian Journal of Physiology and Pharmacology*.

J. R. Pednekar, A. S. Borkar, Effect of Pranayama on visual and auditory reaction time, sent for publication in *Indian Journal of Physiology and Pharmacology*.

4.35.7 Sponsored Consultancy Work Undertaken: (Name of Teacher, Nature of Consultancy, Name of the Sponsor, Duration of Consultancy, Amount).

Prasad Nevrekar, Anjali Kamat, Savita Chandra, Academic Councillor, IGNOU, 3 spells of 15 days each annually, amount paid as per no. of student.

4.35.10 Any other information:

(c) Any other Special Achievements by Students/Staff.

Jagdish Cacodcar was a member of Group study Exchange Program of Rotary International and visited North Carolina, U.S.A. during May 2002.

Durga Lawande involved in teaching and training of M.O. from various Govt. and Non Govt. Institution in HIV related respiratory illnesses including tuberculosis.

A. L. da Costa is presently involved in training medical officers in DHS in the implementation of Revised National TB Control Programme in Goa.

E. J. Rodrigues was deputed for 10 days National Course on Educational Science Technology for the Teachers of Health Professionals held from 22nd - 31st August 2002 at National Teachers Training Centre. Postgraduate Institute of Medical Educational and Research, Chandigarh.

4.36 SHRI ICAMAXIDEVI HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL. SHIRODA

4.36.1 List of Teaching Staff: (Name, Qualifications, Designation Department).

Arvind Kothe, D.H.B., D.H.M.S., *Principal & Professor*

DEPARTMENT OF ANATOMY

V. J. Monteiro, M.B.B.S., M.S., (*Anat*), *Professor*

R. B. Desai, *Medico Cirurgiao*, *Professor*

S. D. Naik, B. H. M. S., *Lecturer*

Ajay Nagzarkar, B.H.M.S., *Demonstrator*

DEPARTMENT OF PHYSIOLOGY

R. A. Dhume, M.D., (*Human Physiology*), *Professor*

Jean Z. Antao, B. H. M. S., *Lecturer*

Malini Desai, B. H. M. S., *Demonstrator*

R. Rebelo M. A., (*Psychology*), *Demonstrator*

DEPARTMENT OF PHARMACY

R. R. Shirvoikar, B. H. M. S., *Demonstrator*

Tessy Maria Jose, B. H. M. S., *Demonstrator*

Urmila Teli, B.H.M.S., *Demonstrator*

DEPARTMENT OF MATERIA MEDICA

Arvind Kothe D.H.B., D.H.M.S., *Professor*

Anna E. S. B. Cardozo, B. H. M. S., *Demonstrator*

Kalpna Prabhu, B. H. M. S., *Demonstrator*

Fatima D'Costa, B. H. M. S., *Demonstrator*

DEPARTMENT OF ORGANON

Anjali Chodneker, B.H.M.S., *Demonstrator*

Francis Fernandes, B.H.M.S., *Demonstrator*

Ashok Borkar, B.H.M.S., *Demonstrator*

Sushi Neogi, B.H.M.S., *Demonstrator*

DEPARTMENT OF PATHOLOGY

S. Menezes, M.D., F. I. C. P., *Professor*

Leena Naik, M. D., *Asst. Professor*

G. R. Joshi, B.H.M.S., *Demonstrator*

DEPARTMENT OF FORENSIC MEDICINE

Ajay Pednekar, M.B.B.S., M.D. *Hony.Lecturer*

Lewis Da'Silva, B. H. M. S., *Demonstrator*

DEPARTMENT OF PREVENTIVE & SOCIAL MEDICINE

Gokuldas Sawant, M.B.B.S., M.D., *Hony.Lecturer*

Vibhav Pal Angle, B.H.M.S., *Demonstrator*

DEPARTMENT OF SURGERY

Rajesh Kambli, M.B.B.S., M.S., *Asst. Professor*

Vivek Naik, M.S., D.O.M.S., *Lecturer*

A. Soares, M.B.B.S., M.S, *Asst. Professor*

Jorson Fernandes, M.B.B.S., *Lecturer*

DEPARTMENT OF GYNAECOLOGY & OBST.

Madkaikar, M.D., DGO., *Asst. Professor*

Sudha Vaidya, M.B.B.S., D.G.O., *Asst. Professor*

DEPARTMENT OF REPERTORYSuresh Kumar Bank, M.D., *Lecturer*A. Kudchadkar, , M.D., *Lecturer*Rajesh Naik , M.D., *Asst. Professor***DEPARTMENT OF MEDICINE**Vinay Priolkar, , M. D., *Asst. Professor*T. D.'Costa, M.D., *Lecturer*Varsha Amonker, M.D., *Lecturer*S. Desai. M.C.H., *Lecturer***4.36.2 Highlights of the Research Activities:**

Drug Proving Research Activity: The Central Council for Research in Homoeopathy, Ministry of Health & Family Welfare, Govt. of India — An apex body in the field of Research in Homoeopathy, has consented to accord the necessary technical guidance for the Research on Drug Proving in this College. The Drug proving is a unique process of Pharmacodynamics -- knowing the therapeutic action of the drug by administering a medicinal substance in a micro dose prepared by the method of potentization. The activity is useful in addition to partially proved remedies as well as to introduce new medicines. (b) Effect of Homeopathic Treatment on learning disability. (c) Effect of Gymnema Sylvestre in non insulin dependent diabetics Mellitus (Niddt) Clinical Trails of Pharmaceutical Products. (e) Critical study of 'Silicea' based on source books and evolution portrait.

4.36.3 List of Visiting Scholars: (Name of Scholar, Institution, Title of Lecture delivered, Date).

Sarosh Engineer, Former Professor, Dept. of Anatomy, CMP Hom. Medical College, Mumbai, (i) Introduction to Cranial Nerves, 7th July 2002, (ii) Dural Sinuses, 13th July 2002.

K. P. Muzumdar, Former Director, National Institute of Homoeopathy — Kalkotta (Govt. of India), An Apt to the Study of Therapeutics. (a) Medicine, (b) Surgery, (c) Gynaecology, 30th July 2001 - 4th / 2002.

Kishore Mehta, Director, Homoeopathic Education & Research Institute (HERD, Mumbai, Concept of F 13th - 15th October 2002.

S. P. S. Bakshi, President, Central Council of Homoeopathy, New — Delhi, Inaugural address of the National Seminar on Homoeopathic Education & Research, 17th - 19th January 2002.

Ramjee Singh, Vice-President, Central Council of Homoeopathy, New Delhi, Address at the National Seminar on Homoeopathic Education & Research, 17th - 20th January 2002.

S. M. Singh, Govt. JBS Hom. Medical College, Allahabad (U.P.), Concept of Health, Disease & Cure, 19th January 2002.

Praful Barvalia, Professor CMP Homoeopathic Medical College, Mumbai, Theory of Miasm & Evolution of Disease, 19th January 2002.

Kishore Mehta, Director, Homoeopathic Education & Research Institute (HER!), Mumbai, An approach to Applied Organon, 19th January 2002.

M. P. Arya, Former Principal, D. S. Homoeopathic Medical College, Pune, Fundamentals of Repertory, 19th January 2002.

S. K. Tiwari, Principal, Fr. Muller's Homoeopathic Medical College, Mangalore, Philosophy, Constructive Application of Murphy & Synthetic Repertory, 19th January 2002.

Jawahar Shah, Member, Central Council of Homoeopathy, New Delhi, Information Technology in Repertorisation, 19th January 2002.

D. P. Rastogi, Chairman P.G. Education Committee CCH, Former Director, CCRH Ministry of Health & Family Welfare, Govt. of India, Research Scenario in India, 20th January 2002.

Praful Barvalia, Prof. CMP Homoeopathic Medical College, Mumbai, Evolving Conceptual framework till Clinical Research, 20th January 2002.

Kishore Mehta, Director, Homoeopathic Education & Research Institute (HER!), Mumbai, An approach to study of Mat. Medica Evolution of Portrait, 20th January 2002.

D. P. Rastogi, Chairman P. G. Education Committee CCH, Former Director, CCRH Ministry of Health & Family Welfare, Govt. of India, Study of Mat. Medica through Repertory, 20th January 2002.

Esmail Sait, Principal, Govt. Horn. Medical College, Calicut, Lesser known Remedies, 20th January 2002.

K. P. Muzumdar, Former Director, National Institute of Homoeopathy, Kolkata (Govt. of India), Homoeopathic Therapeutics its Philosophy & logic, 20th January 2002.

Anil Bhatia, Former Advisor (Horn.) Govt. of India, Remarks on Session by Chairman, 20th January 2002.

M. P. Arya, Former Principal, D. S. Homoeopathic Medical College, Pune, Educational Scenario in India, 20th January 2002.

M. A. Udchankar, Principal, A. M. Shaikh Homoeopathic Medical College, Belgaum, Objectives — Teaching Learning Methods and Evaluation, 20th January 2002.

Olvinho J. F. Gomes, Vice-Chancellor, Goa University, 247th Birth Anniversary Celebration of Hahnemann
10th April 2002.

S. P. Singh, Dy. Advisor (Horn.) Govt. of India, Ministry of Health & Family Welfare, Dept. of ISM & H, New
Delhi, Felicitate to the Office bearers of newly constituted Goa State Board of ISM & Homoeopathy
11th May 2002.

**4.36.4 Sponsored Research Projects sanctioned during the concerned academic year: (Name of the
Investigators, Topic, Date of Sanction, Funding Agency, Amount).**

Arvind Kothe, K. P. Muzumdar, Jean Antao, Drug Proving under the Technical guidance of CCRH, 19th Jul,
2000.

Arvind Kothe, Praful Barvalia, Sushil Neogi, Learning Disability.

Arvind Kothe, Reena Lippal, Mrunmayee Kothe, Leena Naik, Effects of Gymnema Sylvestra in NIDDM.

Arvind Kothe, G. R. Joshi, Tessa Jose, Vibhav Angle, Clinical Trails of Pharmaceutical Products.

Arvind Kothe, Kishore Mehta, Leena Naik, Clinico-pathological & Psycodynamic evaluation of Silicea.

4.36.5 Seminars/ Conferences/ Workshops, etc.

a) Organised : (Title/Theme, Dates, Funding Agency, Name of the Department).

Seminar on Cytology, 7th May 2001, Dept. of Pathology.

Workshop on Research Methodology, 30th July 2001, Research Unit.

National Seminar on Homoeopathic Education & Research Goa, 2001, 19th - 20th January 2002.

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

Suzette Menezes, Indian Academy of Cytologist & Dept. of Pathology of Shri. Kamaxidevi Horn. Medical
College & Hosp, Shiroda, 7th May 2001.

Arvind Kothe, Kerala State Homoeopathic Practitioner's Association, Govt. Homoeopathic Medical College
Calicut, Kerala, 14th July 2001, Homoeopathic Management of Cancer Cases.

Arvind Kothe & Kishore Mehta, National Seminar on Homoeopathic Education & Research, Rai. Kamaxidevi
Homoeopathic Medical College & Hospital, Shiroda, Goa, 20th January 2002, Curriculum Planning &
Lesson Module.

4.36.10 Any other information:

Participation in Career Guidance fare.

Organised 1st Inter-Professional Medical Colleges Cricket Tournament.

Homoeopathic Quiz.

Educational Tour.

Teacher's Day Celebration.

Organised Health Exhibition on 31st August & 2nd of September 2001- An Annual feature of the institution
to promote health awareness amongst the students and the people at large.

4.37 NATIONAL HYDROGRAPHIC SCHOOL, VASCO

4.37.1 List of Teaching Staff: (Name, Qualifications, Designation, Department).

Cdr. P I Mathews, M.Sc., *Officer-in-charge*

Lt.Cdr Anil Sreedharan, B.Sc., *Chief Instructor*

Lt.Cdr G S Pujar, B.E., *Electrical Officer*

Lt.Cdr Hemanth Kumar, B.E., *Education Officer*

Head, Faculty of Ancillary Hydrography

Lt. J. Gurumani, M.H.S., *Head, Faculty of*

Hydrographic Practice

Lt. Ashish Arya, M.H.S., *Head, Faculty Of Ancillary
Hydrography*

Lt. N S S Sreenivas, M.H.S., *Member, Faculty of
Hydrographic Control*

Lt. R V D' Monte, B.Sc., *Controller of Examination*

4.37.2 Highlights of the Research Activities:

Dissertations were carried out by the students of MHS course and Cdr P I Mathews, Officer-in-charge, Ltcdi
Anil Sreedharan, Chief Instructor, Ltcdr Hemanth Kumar, Lt Ashish Arya, Lt NSS Sreenivas and Lt J
Gurumani guided the students in their respective subjects.

4.37.3 List of Visiting Scholars: (Name of the Scholar, Institution, Title of Lecture Delivered, Date).
 N I O staff, N I O, Goa, Attachment to N I O, 13th August 2001 - 8th September 2001.
H. B. Menon, Goa University, Remote Sensing and its application in CZM, 1st September 2001.
C. U. Rivonkar, Goa University, Ecological Biodiversity, 19th September 2001 .
V. M. Matta, Goa University, Coastal Pollution with reference to Eutrofication and heavy metal, measi control it, Practical study on pollution in CZM, 21st September 2001.
A. A. A. Viegas, Goa University, Sediment Transportation, Coastal erosion and measures to coati Sediment transportation and their effect on tourism, 22nd September 2001.
Cdr J. J. Puthur, Dredging, Naval Detachment, Bangalore, - 5th October 2001.
N. Bala1crishnan, National Hydrographic Office, Dehradun, Geodsy, 16th - 20th October 2001, 30th April May 2002.
CWPRS Staff, CWPRS, Pune, Attachment to CWPRS, 5th - 10th November 2001.
Captain Karnad, Mormagao Port Trust, Duties of Harbour Master, 29th November 2001.
U. K. Singh, National Hydrographic Office, Dehradun, Projection, 30th April - 5th May 2002.

4.37.5 Seminars/Conferences/Workshops, etc.

(b) Attended: (i) Seminars/Conferences:(Name of Teacher, Name of Organising Institute, Place, Title of Paper).

Lt Cdr Anil Sreedharan, National Seminar on Coastal Surveys Prospects and Opportunities in the Millennium, Conducted by the Tamil Nadu Maritime Board and the National Institute of Ocean Techni Chennai at the Conference Hall, Indian Institute of Technology, Chennai, 3rd August 2001, Digital Sun Technology Digital Equipment and Real Time Data Processing and Archival Techniques.

4.38 PADRE CONCEICAO COLLEGE OF ENGINEERING, VERNA

4.38.1 List of Teaching Staff: (Name, Qualifications, Designation, Department).

DEPT. OF MECHANICAL ENGINEERING

V. K. Kustagi, M.Tech., Professo & Head
C. R. Venkataramana, M.Tech., Asst. Professor
M. I. Salcri., M.Tech, Asst. Professor
Dayanand Pai, M.E., Sr. Lecturer
Geetalalshmi K., M.Tech., Lecturer
Suraj Rane, M.E., Lecturer
C.V. Pujari, M.E., Lecturer
Jaganath Hirkude, B.E., Lecturer
Joe Kurian, B.E., Lecturer
Neena Panandikar, B.E., Lecturer
Tania Gomes, B.E., Lecturer
Ravindra S., M Tech., Lecturer
Vibha Shenvi, B.E., Lecturer

DEPT. OF ELECT. & TELECOMMUNICATION ENGINEERING

K. R. Pal, Ph.D ., Professor Head
Jose Iven., M Tech., Lecturer
Jayalakshmi Devate, M.Tech., Lecturer
Komala Soares, M.E., Lecturer
Supriya Patil, B.E., Lecturer
Manisha Crasto, B.E., Lecturer
Natasha Viegas, B.E., Lecturer
Arun Torgal, B.E., Lecturer

Nayana Shenvi, B.E., Lecturer
Shailesh Khanolker, B.E., Lecturer
Niyan Marchon, B.E., Lecturer
Shirley D' Costa, B.E., Teaching Assistant

DEPT. OF HUMANITIES

Stephen Barretto, Ph.D., Sr. Lecturer,
V. V. Bhujle, M. Sc., Lecturer
Adarsh Handa, M. Sc., Lecturer
C. Noronh e Pereira, M. Sc., Lecturer

DEPT. OF COMPUTER ENGINEERING INFORMATION TECHNOLOGY

R. P. Adgaonkar, Ph.D., Principal & Professor
Sanj iv Nadkarni, B.E., Senior Lecturer
Deepa Majithia, B.E., Lecturer
Kavita Asnani, B.E., Lecturer
Anusha R. Pai, B.E., Lecturer
Wenonah Jaques, B.E., Lecturer
Reena Dalvi, B.E., Lecturer
Neelam Marathe, BE., Lecturer
Olavo D' Souza, B.E., Lecturer
Sunil Walwaiker, BE., Lecturer
Sharmad Naik, B.E., Lecturer
Staju Jacob, MMS, Lecturer

4.38.3 List of the Visiting Scholars: (Name of Scholar, Institution, Title of Lecture, Date).

S. Sadagopan, Director, Indian Institute of Information Technology, Enterprise Resource Planning, September 2001.
B. S. Sonde, Vice Chancellor, Goa University, Miniaturization in Electronics, 13th September 2001.

Dileep Deshpande, Vice President (Technical), Zuari Industries Limited, Business Turnaround Strategies, 12 September 2001.

K. Pattabhiraman, Coordinating Engr., C-DOT, Bangalore, ASIC Design and ATM Technology, 13th September 2001.

M. R. Aravindan, Dy. Chief-Strategic Planning, Dempo Group of Companies, ISO 9000 Quality Management Systems, 12th September 2001.

M. R. Nayak, Director, National Institute of Oceanography, Oceanographic Instrumentations, 13th September 2001.

Ravi Bhargava Dy. Gen. Manager, Goa Telecom, Integrated Services Digital Network, 13th September 2001.
Deepak Chodankar, General Manager, D-Link India Limited, Molecular Nano Technology, 14th September 2001

P. V. Sathe, Dy. Director, National Institute of Oceanography, Challenges in Image Processing, 14th September 2001

Arvind Clement, Gen. Manager, Control India Limited, Linux-System & Networking, 14th September 2001

J. J. Singh, Managing Director, A.C.G.L., Kaizen in Management, 1st March 2002.

S. Srinivasan, Vice President- (Commercial), Zuari Industries Limited, WTO-Challenges and Opportunities, 1 March 2002.

Peter D' Souza, Dept. of Political Science, Goa University, Human Rights, 17th May 2002.

Sangeeta Kulkarni, Visiting Lecturer, M. Sc.
C. Fernandes, Visiting Lecturer, M. A.(English).

4.38.5 Seminars/ Conferences/ Workshops, etc,

(a) Organized: (Theme of Seminar, Dates, Funding Agency, Name of the Dept).

(1) Genetic Algorithms, March 2002, Mechanical Engg. (2) Ion propulsion, March 2002, Mechanical Engg. (3) Gramic-matrix Composites, April 2002, Mechanical Engg. (4) Stereolithography, April 2002, Mechanical Engg. (5) Heat Pipes, April 2002, Mechanical Engg. (6) Interferometry, March 2002, Mechanical Engg. (7) Lint Kernel Internals, March 2002, Computer Engg. (8) DVD Technology, March 2002, Computer Engg. (9) Viruses & Anti-viruses, March 2002, Computer Engg. (10) Siinputers, March 2002, Computer Engg. DINI/ Computers, April 2002, Computer Engg. (I I) Future of Automobiles, April 2002, Computer Engg (12) Bioinformatics, April 2002, Electronics & Telecomm. Engg., (13) Global Positioning System, April 2002 Electronics & Telecomm. Engg., (14) Biometric information, April 2002, Electronics & Telecomm. Engg. (15) Bioinformatics, April 2002, Electronics & Telecomm. Engg., (16) Inlini hands, April 2002. Electronics Telecomm. Engg., (I 7) Nano Technology, April 2002, Electronics & Telecomm. Engg., (18) Fuzzy Logic, April 2002, Electronics & Telecomm. Engg.

(b) (i) Attended : Seminars/Conferences: (Name of Teacher, Organising Institute, Place, Dates, Title of Paper).

Suraj Rane, HT- Powai, Mumbai, December 2001, (i) A New approach in Markov analysis for system availability. (ii) Optimization of Parameters using Taguchi Methodology: A case in Automotive Industry.

C. R. Venkataramana, KREC, Surathkal, Surathkal, December 2001, Investigation of Rice Bran Oil as alternate fuel for IC Engines.

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

B. L. N. Shastry, Accreditation of Engg. Colleges, SDM College of Engg, Dharwad.

R. P. Adgaonkar, Industry-Institute Interaction, HT — Mumbai.

Iven Jose, Image and Video Processing for Multimedia Applications, HT-Kharagpur.

S. D. Barreto, Recent Advances in Operator Theory and Operator Algebras - II, ISI — Bangalore.

4.38.6 Publications:(a) Research Articles: (Name, Title, Journal, Place, Publisher, Month/Year),

M. Suraj Rane, I. A New approach in Markov analysis for system availability Optimization of Parameters using Taguchi Methodology: A case in Automotive Industry, Proceedings of International Conference on Quality, Reliability and Control, IETE, Mumbai Centre and IIT, Mumbai., December 2001.

C. R. Venkataramana, Investigation of Rice Bran Oil as alternate fuel for IC Engines, Proceedings of the XVII National Conference on IC Engines and Combustion, KREC, Surathkal, December 2001.

(b) Books: (Name, Title of Book, Place and Publisher, Year).

C. R. Venkataramana, Mechatronics, Sapna Book House, Bangalore, July 2001.

4.38.9 Achievements:

First place in Swimming and Tennis and runners-up in Table-Tennis.

4.39 GOA INSTITUTE OF MANAGEMENT STUDIES, CARANZALEM

4.39.1 List of the Teaching Staff: (Name, Qualifications, *Designation*, Department).

A.R.Naik, Director

4.39.3 List of Visiting Scholars: (Name of Scholar, Institution, Title of Lecture, Date).

A.S. Desai, MPM

Girish Potdar, B.E.

R. D. Kamat, [B.Com.](#), C A

Savari Muthu I., B.Sc., B. Phil

J. A. Menezes, M.Sc., FNCB

Prabodh K. Kamat, B.E., DBM

R.V. Sarjotishi, M.A., LLB

P. R. Mahambre, B.Sc., AMTE

Vallabh V. Rao Valaulikar, B.Sc., LLB

Narayan K. Prabhu, [M.Com.](#), LLB

B. T. Boke, B.A., MSW

Vinod Kamat, B.Tech., M.B.A.

Rajiv Pilgaonkar, B.E.(Mech)- VJIT, M.S. (IE)

Santosh Kamat, B.Sc., LLB, DSM

Anthony E. Barretto, B.Sc., LLB, FCS

Vaman R. Naik, M.A., Ph. D.

Moumita Basu, M.Sc.

Anant Prabhu, B.Sc.

Mousami Kamat, [B.Com.](#), C.A.

M. U. Paily, B.Sc., Ph.D.

Mario D'Souza, M.Phil, M.B.A.

Staju Jacob, B.Sc., M.M.S.

Manoj ICamat, [M.Com.](#)

K. Satishchandra Rao, [B.Com.](#)

Shanta Amonkar, B.A., LLB

Vijay Hede, B.Tech.

Ajit Parulekar, M.Pharm.

C.M. Ramesh, M.M.S.

Anthony Pacheco, B.Sc.

Raj Goal, M.B.A.

V. S. Kapadi, B.E.

V. Sukhthankar

Vithal B. Kamat, M.E.

Jean Silva, B.E.

Pravin Gharlute, M.P.M.

Rajiv Kudke, B.E.

Nageshwar Rao, B.E.

Venkatesh Prabhu, B.E.

Sandeep S. Kamat B.E., D.O.M., M.E.

S. Dias, M. P. M.

R. R. Nayak, [B.Com.](#)

Nikhil Varerkar, [B.Com.](#), M.A.

Rajesh Chedda, [B.Com.](#), C.A.

P. Nath, P.G. D.P.M. & Ind. Relation

B. P. Naik, B.A., LLB

G. G. Pal, B.Sc.

Anand R. Naik, M.B.A.

4.40 V Y S INSTITUTE OF MANAGEMENT TRAINING & RESEAR MARGAO

INFORMATION NOT RECEIVED

4.41 INSTITUTE OF SAFETY, OCCUPATIONAL HEALTH & ENVIRONMENT, PANALTI

INFORMATION NOT RECEIVED

4.42 INDIAN INSTITUTE OF LOCAL SELF GOVERNMENT

INFORMATION NOT RECEIVED

4.43 INS HAMLA, MUMBAI

4.43.1 List of Teaching Staff: (Name, Qualifications, Designation, Department).

CMDE Paras Nath, MMS, LLMC, PSC, LDMC, NDC, Commanding Officer	LT CDR A P Dureha, B. Sc. LEDP, Sr. Trg. Office (CS)
CDR OP Kaura, B.SC. LL & MC, Executive Officer	LT CDR D Acharya, B.Sc. LEDP, Directing Staff
CDR R K Upadhyaya, B.Sc., B. Tech, LL & MC, Training Commander (MS)	LT CDR Rajat Kapoor, B.Sc., LLMC, Works Officer
CDR Jodha, LLB, Regulating Officer	LT CDR Sanjeev Thapa, B.Sc., LLMC, Sr. Training
CDR PP Singh, M.A., LLB, Off. Inch. Civilian Trg.	LT CDR Banwari Lal, MBA, Logistics Officer
CDR S. R. Bhaskar, BA, MTO	LT Ranadeep Bose, B.Sc., LLMC, Directing Staff
LT CDR Sanjeev Sharma, B.Tech., ALCC, MPCTC, LEDP, Training Commander (CS)	LT MSRK Raju, BA, LEDP, Directing Officer
LT CDR DB Rokde, B.Com. , Training Officer	LTS Sunil Kumar, B.Sc. LLMC, Directing Staff
LT CDR Ranjit Singh, B.Sc., ALCC, LEDP, Sr. Training Officer (MS)	LT P Devi, B.E., MBA, Deputy SEDO
	LT Bhavna Sharma, M.Comp.Sc, Directing Stoll
	LT Sofia D'Souza, B.E., Comp. Sc., Directing Staff
	LT K Anuradha, B.A., MHRM, Asst. Logistics Office,

4.43.3 List of the Visiting Scholars : (Name of Scholar, Institution, Title of Lecture Delivered, Dale).

- V. K. M Sahane, Organisational Behaviour, 22nd - 27th July 2002.
- Sarika Kulkarni, IIMM, Mumbai, E-Procurement, 2nd & 3rd August 2002.
- R. Dubey, IOC, Mumbai, Employee Motivation & Job Enrichment, 27th August 2002.
- J. S. Kaushal, IOC, Mumbai, Union Management, 28th August 2002.
- Sanat Mishra, IOC. Mumbai, Employee Recruitment Selection, 29th August 2002.
- Ajay Parmar, Director Naval Training, Training in Indian Navy, 9th September 2002.
- J. Kashyap, DNPR. Man Power Planning And Recruitment. 13th September 2002.
- V. S. Batra, Project Sea Bird, Project Sea Bird, DIS-Investment/Privatisation, 13th - 14th September 2002.
- Hampiholi, DOP, Officers Career Planning, 16th September 2002.
- V. K. M. Sahane, Transactional Analysis, 17th September 2002.
- Pradeep Kulkarni, IOC, Mumbai, Wages Act, Payment of Bonus Act, 26th September 2002.
- Deepak Dhavan, IOC, Mumbai, Contract Act, Specific Relief Act, Consumer Protection Act, 27th September 2002.
- Pradeep Kulkarni, IOC, Mumbai, Power of Attorney, 27th September 2002;
- Pankaj Kumar, IOC, Mumbai, Basic of Court Room Procedure, Indian Legal System, 28th September 2002.
- Pathak, IOC, Mumbai, Constitution, 28th September 2002.
- S. N. Mishra, ND(MB), Industrial Disputes Act, Contract Labour Act, Factories Act, 22nd - 24th and 25th - 26th October 2002.
- S. Khare, IOC, Mumbai, Wages Act, Minimum Wages Act, 23rd September 2002.
- V. Radha Krishnan. SO(Works), HQSNC, Classification of Works, Stages of a Work, Stages of a Para 10, II & 12, Preparation of BPs & SOC's Financial Powers, Works Budget, AWP, Scales of Accommo. Maint Pgme., 2nd September 2002.
- V K Agrahari, GE (NW) Bhandup, Utilisation of Maintenance funds Payment to Contractors, 4th September 2002.
- R K Vazirani, AE, AGE (B/R)Mankhurd, MES Organisation & Functions RIC, AES and SSR- 96, 5th September 2002.
- Iswar Dutt, EE, GE (Projects), Preparation of Tender Documents Tendering Procedure, 5th September 2002.
- M. S. Hashmi, EE, GE (Mankhurd), Types of Contracts Contract Documents and Execution Arbitration Re-appropriation of Buildings Demolition Malpractices in Works, 6th September 2002.
- Sukhbir Singh, A E, AGE FJM Bhandup, E&M Services, 7th September 2002.
- P K Bhaskaran, BSO Mankhurd, Scales of Furniture Barrack Damage, 9th September 2002.
- Rajiv Sharma, SBSO, CWE(Suburbs), Recovery of Rent & Allied Charges Procurement of stores and 1.1 Powers, 9th September 2002.
- V. S. Batra, Project Seabird, New Delhi, Project Seabird, 13th September 2002.
- R Pilo, CANAC, I N S Angre, Quartering Rules, 11th September 2002.
- K. S. Mukhopadhyay, SE LT Col B Mohan, SO (Works), DGNP(MB), DGNP Works & Schemes Project Dry Dock, 3th September 2002.

R C Thakur, SDO, DEO, Colaba, Management, Classification & Transfer of Defence Land; Enrcroach Eviction, 14th September 2002.

4.43.5 Seminars/ Conferences/ Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Department).

Two weeks works capsule (which involves construction/repair/maintenance of defence property) for all Naval Officers carrying out duties of works officers in various organisations of the Navy. During this %sit various guest speakers from the Military Engineering Services were invited. Also suppliers were given a to high light the pros and cons of existing system. Group discussion and brain storming session conducted.

(b) (i) Attended: Seminars/Conferences: (Name of Teacher, Organising Institute, Place, Dates, Paper).

1. A three days capsule primarily on Human Resources Management was attended by a faculty r organised by the National HRD Network at Mumbai. During this conference various topics on HI presented by eminent speakers from the cooperate and literary world.

2. A Five days capsule on Central Excise duty, value added tax, octroi exemption etc. was attended 11 directing staffs, which was organised by Indian Institute of Materials Management, Mumbai.

3. A one day's capsule on 3 PL was attended by Commodore Paras Nath, Commanding Officer and Ranjit Singh, DS (Management Faculty).

Papers presented to College of Defence Management and Headquarters, Southern Naval Command:

- i. Indian Navy Tacking to the Blue Waters.
- ii. Leveraging Technology as Change Vehicle.
- iii. Privatisation of Defence Production.

Papers presented Inhouse:

I. Smart Ship - Managing on board Information Systems.

2. Performance Appraisal for Officers in the Navy.
3. Leadership in the Navy.
4. Improvement of Material Management in the Sri Lanlcan Navy.
5. Implementation of paper less office in the Sri Lankan Navy.
6. Military Leadership - A global perspective.
7. How to improve Sri Lanka Navy Foreign Procurement Section.
8. Human Rights and Armed Forces.
9. Training of Logistics Officers for Quality performance.
10. Isn't it time to do away with the ship's Warrant Provisioning/Procurement?
11. Coast Guard - Coming of age (25yrs).
12. Leadership challanges in the 2P' century.
13. Catering in the navy - A new look.
14. Development of Strategy for implementation of E-Procurement in the Indian Navy.

4.44 SHREE RAYESHWAR INSTITUTE OF ENGINEERING & INFORMATIO TECHNOLOGY, SIURODA

4.44.1 List of the Teaching Staff: (Name, Qualifications, *Designation*, *Department*).

K. R. Satyanarayan, D.II.Sc., M.E., Ph.D., *Principal*
S. Nayse, M.E., *Asst. Professor*, Information Tech.
S. Aswale, B.E., *Lecturer*, Inform. Tech
Anita Nayse, M.E., *Asst. Professor*, Elect. & Telecom.
P. P. Prabhu, B.E., *Lecturer*, Elect. & Telecom.
S. K. Mohammed, B.E., *Lecturer*, Elect. & Telecom.
N. Lotlikar, M.E., M.Sc., *Lecturer*, Computer
A. Bahangi, B.E., *Lecturer*, Computer
A. Vernal, B.E., *Asst. Lecturer*, Computer

S. Patil, B. E., *Lecturer*, Basic Engineering
M. N. Fernandes, B.E., *Lecturer*, Basic Engii
G. Kamat, B.E., *Lecturer*, Basic Engineering
S. Gaonkar, B.E., *Lecturer*, Basic Engineer
S. Jagtap, M. Sc., *Lecturer*, Appl. Sc. & Huff
J. Da Silva, M.Sc., *Lecturer*, Appl. Sc. & Hui
B. Coutinho, M.A., *Lecturer*, Appl. Sc. & Hu
Bhatt, Ph.D., *Professor*, Appl. Sc. & Humani
Mubhidri, Ph.D., *Professor*, Appl. Sc. & Hut

4.44.5 Seminars/Conferences/Workshops, etc.

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

Shyam Nayse, Shailendra Aswale, Sunil Jagtap & Anita Nayse, up to Electronics Communication, GEC, up to Electronics Communication.

Sanjay Patil & Newton Fernandes, Awareness of Communication Technology.

PART 5: RECOGNISED 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 Konkanni Kendra, Porvorim

5.1 XAVIER'S CENTRE OF HISTORICAL RESEARCH, ALTO PORVORIM

Fr. Delio de Mendonca, S. J. *Director*
Br. Menina Pereira, S. J., *Administrator*
Karl Todd, *Office Secretary*
L. M. D'Souza, *Librarian*

Arti Mayekar, *Assistant, Library*
Thomas Mendes, *Office Attendant*
Archana Dhargalkar, *Maintenance*
V. Mendonca, *Teacher, Portuguese*

5.1.2 Highlights of the Research Activities.

The Xavier Centre of Historical Research, through its Library and academic staff, has offered research facilities and guidance respectively in areas related to Goan history in particular, Indo-Portuguese history in general, and Church history.

Museum: The Museum of Goan Culture and Art at the XCHR, whose purpose is to make the Centre more reflective of Goan history, culture, heritage and its identity, is scheduled to be inaugurated on 7th December. The XCHR houses several representative artifacts of Indo-Portuguese Christian art, Indian Christian and other modern paintings.

Portuguese Courses: The XCHR has organized several basic courses in Portuguese language. The courses are invited mainly to provide the required tool for those who have to handle documentation in Portuguese language.

The book *Conversions and Citizenry : Goa under Portugal 1510-1610* by Dello de Mendonca was published in April 2002. Its Portuguese translation is almost ready. A Historical Booklet is being printed to mark the occasion of the 450th Death Anniversary of Francis Xavier.

5.2 MALARIA RESEARCH CENTRE, PANAJI

INFORMATION NOT RECEIVED

5.3 DIRECTORATE OF ARCHIVES, PANAJI

INFORMATION NOT RECEIVED

5.4 NATIONAL INSTITUTE OF OCEANOGRAPHY, DONA PAULA

INFORMATION NOT RECEIVED

5.5 NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH, VASCO

INFORMATION NOT RECEIVED

5.6 THOMAS STEPHENS KONKANNI KENDR, PORVORIM

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

Pratap Naik, S. J., Ph.D., Director
M. Almeida, S. J., Ph.D., Researcher
Shilpa Shinde, M.A., Researcher

Netra Veluskar, B.A., Researcher
Preeta Naik, B.L.Sc., Librarian

5.6.2 Highlights of the Research Activities:

TSIUC has set itself the task of working for Konkani culture by a scientific study and promotion of Konkani language, literature, folklore and related forms of Konkani culture. The main work is education and research in Konkani. The Centre has been involved in the following:

Writing grammars such as the descriptive grammar and research articles for periodicals; compiling the Konkani glossary and dictionary project; writing courses to teach Konkani, such as Konkani basic and advanced courses; promoting literature by transliterating works into Devanagari from other scripts; research, critical editing and publishing of old Konkani works; preparing and publishing children's books and cassettes; giving various courses to Konkani teachers and Konkani learners; writing articles for research periodicals, giving broadcasts; providing research guidance and library facilities to Ph. D. students and other scholars; efforts to standardize the orthography of the three different scripts of Konkani.

5.6.3 List of Visiting Scholar: (Name of Scholar, Institution, Title of Lecture Delivered, Date).

Rocky Miranda, Mysore
Fr Valerian Fernandes, Mangalore.

5.6.5 Seminars/Conferences/Workshops, etc.

(a) Organised: (Title/Theme, Dates, Funding Agency, Name of Department).

Pratap Naik, (i) Conducted Konkani Orthography workshop for representatives of Konkani periodicals and institutions of Karnataka at Mangalore, 30th September 2001. (ii) participated in the symposium, Akademi, a symposium on Common Man and Literature, 12th May 2002.

(b) (i) Attended: Seminars/Conferences: (Name of Teacher, Organising Institute, Place, Dates, Title of Paper).

Pratap Naik, attended the 23rd All India Konkani conference held at Mangalore, 20th - 21st April 2002.

5.6.6 Publications: (a) Research Articles:

Pratap Naik, *Konknni sod vavrachi vishoy volleri*, Sod, III, February 2002.

(b) Books:

Pratap Naik, Matthew Almeida, *Konknni Borounchi Promann Rit (Konnod lipyent), Thomas Stephens Konkani Kendr, Porvorim, 2001.*

5.6.7 Any other information:

TSKK conducted one day "Konkani Project Methodology: Practical hints and guidance for college students. Students from five colleges from Goa attended the programme, 4th August, 2001

Pratap Naik, conducted a **Kannada script course at Xavier Training College, Belgaum for a group of young Jesuits, 8th - 13th October., 2001.**

Environmental Studies Course conducted in two batches from 5th - 7th Nov., and from 15th - 17th Nov., 2001 to help the Konkani primary teachers to teach EVS through the play way method.

TSKK conducted a Konkani Basic intensive course for beginners, 10th April - 9th May 2002.

PART 6: FINANCIAL STATEMENT

6.1	Grants:		
6.1.2	Grants from University Grants Commission		
1	IX Plan Development Grants		Rs. 27,00,000.00
2	Academic Staff College		Rs. 40,00,000.00
3	Centre for Latin American Studies		Rs. 1,00,000.00
4	Teacher Fellowship		Rs. 36,000.00
5	Unassigned grants		Rs. 4,00,000.00
6	Grants for Major Research Project of S. G. Tilve, Dept. of Chemistry		Rs. 59,690.00
7	Computer Facility for ASC		Rs. 25,000.00
8	Partial Assistant TD, DA, to R. N. Mishra, Dept. of Hindi		Rs. 61,394.00
9	Grants for major Research Project Anjana Raju, Dept. Commerce		Rs. 1,02,500.00
10	Grants for major Research Project B. Ramesh, Dept. Commerce		Rs. 92,020.00
11	Grants for major Research Project B. R. Srinivasan, Dept. Chemistry		Rs. 1,19,780.00
12	Grants for major Research Project K. S. Rane, Dept. Chemistry		Rs. 2,68,280.00
13	Grants for major Research Project R. Roy , Dept. Zoology		Rs. 1,07,200.00
14	Other Grants-Net Exam		Rs. 61,597.00
6.1.3	Grants from Central Governments Departments and other agencies:		
1.	Council of Scientific & Industrial Research	Research Project of S. G. Tilve, Dept. of Chemistry.	Rs. 83,600.00
		Research Project of S. Krishnan, Dept. of Botany.	Rs. 1,22,615.00
		CSIR Fellowships.	Rs. 1,73,635.00
		Research Project of Sarode, Dept. of Physics.	Rs. 58,786.00
		Conference of Zoology Dept.	Rs.
2.	Grants from Dept. of Ocean Development	Res. Project S. K. Dubay, Dept. of Microbiology.	Rs. 8,51,000.00
		Res. Project of R. Roy, Dept. of Zoology.	Rs. 4,10,800.00
		Research Project of S. Mavinkurve, .	Rs. 2,35,500.00
		Res. Project of S. Mavinkurve, Dept. of Microbiology.	Rs. 2,59,500.00
3.	Dept. of Science & Space Technology	BOYCAST Fellowship to Krishnan, Dept. of Botany.	Rs. 2,92,600.00
		Res. Project of S. C. Ghadi, Dept. of Mar.Biotech.	Rs. 3,25,000.00
		FIST Programme, Dept. of Botany.	Rs. 10,00,000.00
		Training course in WINSIS University Library.	Rs. 3,486.00
		Partial Assistant for Travel P. R. Sarode, Dept. of Physics & other	Rs. 1,50,000.00
4.	Dept. of BioPost Graduation course in Marine Biotechnology Technology		Rs. 12,72,600.00
		Res. Project of U. Murlidharan, Dept. Mar-Biotech	Rs. 3,83,200.00
		Res. Project Sangodkar, Dept. of Marine Biotech.	Rs. 3,00,000.00
		Marine Bio-Technology Co-Coordinator's meeting	Rs. 7,888.00
		Strengthening of Training Research Proj. Mavinkurve	Rs. 74,527.00
5.	Dept. of Environment Forest & Wild Life	Res. Proj. of I. Furtado, Dept. of Microbiology	Rs. 25,000.00
6.	Dept. of Atomic Energy, Mumbai	National Board of Higher Mathematics Library Books & Journals.	Rs. 2,40,000.00

		National Symposium, Dept. of Botany	Rs.	30,000
		Res. Project of V. S. Nadkarni Dept. of Chemistry.	Rs.	
7.	Inter University Consotium, Indore	Res. Project of P. R. Sarode, Dept. of Physics.	Rs.	29,277
8.	Department of Space	Distance Education	Rs.	20,00,000
		Res. Project of H. B. Menon	Rs.	4,50,000
9	Italian Embassy, New Delhi	Salary to Italian Lecturer, Maria Rossy	Rs.	1,68,175
10	Dept. of Rural Development, New Delhi	Res. Project of A. G. Chachadi	Rs.	13,000
11.	All India Technical Education, New Delhi	Res. Project of A. B. Bhattacharya	Rs.	7,00,000
12.	Consaltancy Projects	Ciba Specialty Project of A. G. Chachadi	Rs.	1,99,693
		Control Net Consultancy Proj. of A. B. Bhattacharya, Dept. of Electronics	Rs.	2,30,000
		EMERK Consultancy Project of S. Mavinkurve, Dept of Microbiology	Rs.	12,000
13.	Indian Council of Cultural Relations.	Scholarship: Yvetti Bartos	Rs.	1,14,245,
		Other Foreign students	Rs.	8,072,
		Other Grants	Rs.	1,06,173.
			Rs.	3,000.
14.	Indian Council of Historical Research	Res. Project of. Pius Malekandathil, Dept. of History	Rs.	17,813.
15.	Indian Council of Medical Research	Res. Project of B. F. Rodrigues, Dept. of Botany	Rs.	30,000.
16.	Europe European Union	Res. Project of A. G. Chachadi, Dept. of Geology	Rs.	2,05,963.
17.	South South Asian Network Develo for Development & Enviro Environment Eco, Nepal	Res. Project of P. Mukhopadhyay Dept. of Botany	Rs.	2,09,300.
18.	Others	International Seminar in the Dept. of History	Rs.	1,15,000.1

6.1.4 State Government Agencies:

a) Scholarship:

1.	Scholarship to Disabled	Rs.	3,300.1
2	National Scholarship P G Students	Rs.	1,200.i
3.	Post Matric Schalarship S C Students	Rs.	91,086.1
4.	Educational Concession to children of Freedom Fighter	Rs.	67,295.1
5	N. S. S.	Rs.	2,64,000.1
6.	Hindi Scholarship	Rs.	1,000.1

b) Grants from Goa State Council for Science & Technology

I.	Research Project of A. B. Shanbhag, Dept. of Zoology	Rs.	75,000.1
2.	Seminars in Zoology Dept.	Rs.	7,000.1

c) Directorate of Planning, Statistic & Evaluation.

I. Plants Fungus Bio-Diversity Res. Proj. D. J. Bhat, Dept. of Botany Rs. 10,00,000.00

d) Collectorate of North Goa — Construction of Building for Computer Lab. Rs. 6,60,470.00

6.1 Endowment:

1. Dumingo Rebell° Rs. 25,092.01

2. Daleep Singh Rs. 25,000.01

6.2 Expenditure Rs. in Lakhs)

	Budget Estimates (2001-2002)			Revised Estimates (2001-2002)		
	Recurring	Non-Recurring	Total	Recurring	Non-Recurring	Total
Plan	495.99	72.11	568.10	396.69	91.66	488.35
Non-Plan	761.04	-	761.04	655.70	-	655.71

	Actual (2001-2002)			Budget Estimates (2002-2003)		
	Recurring	Non-Recurring	Total	Recurring	Non-Recurring	Total
Plan	335.42	64.07	399.49	420.75	42.81	463.56
Non-Plan	536.93	-	536.93	649.81		649.81

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H.E. Governor of Goa and Chancellor of Goa University presenting the Ph.D Degree to Mr. Tushar S. Anvekar in the subject of Chemistry at the Annual Convocation - 2002



Chief Guest Dr. Ashok Misra addressing the Annual Convocation -