

XXIX ANNUAL REPORT

June 2013- May 2014



GOA UNIVERSITY
TALEIGAO PLATEAU
GOA 403 206



GOA UNIVERSITY

CHANCELLOR
Smt. Mridula Sinha

VICE-CHANCELLOR
Dr. S. R. Shetye

REGISTRAR
Prof. V. P. Kamat

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From the Vice-Chancellor's Desk



It is with great pleasure that we present this Annual Report 2013-14 of Goa University to our readers. I will use this opportunity to provide an overview of the progress we made during the year by highlighting some events that stood out.

The Goa State Infrastructure Development Corporation got ready Block-E, the new Science Block, for conducting classes and laboratories for four departments of the university, Chemistry, Biotechnology, Microbiology and Zoology from the beginning of academic year 2013-14. The block, besides housing these departments, has two auditoria, a 350-seater and a 150-seater. Though the building is not fully completed and not yet handed over formally to the university, it has alleviated considerably the crunch that the university has been facing for quite some time for more classrooms and laboratories. Of course, challenges remain. This building's sophistication is significantly higher than what the university is used to. Therefore, its maintenance and repair will test the university's capabilities. Nonetheless, with this building nearing completion and the plan to build a separate building for commerce and management departments gaining momentum, the university should be able to handle its need for space in near future. The university will now need to build a longer-term perspective to envision its campus and infrastructure development during the next few decades.

Completion of Block-E created an opportunity for the university to take stock of its intake of students every year versus the demand for post-graduate seats at the university. This led to the university increasing its intake by about 30% this academic year, the intake increasing from about 650 students in the master's programmes in 2012 to about 850 in 2013. The major drivers for this increase were the following. Department of Chemistry increased its intake from 36 to 72. The department also added a new option, Analytical Chemistry, in the options offered to M.Sc. students. Department of Commerce added 35 more seats for their Master's programmes. Department of Computer Science & Technology doubled its intake in the MCA programme from 30 to 60. The department also launched a new course, M.Tech. in Computer Science with intake capacity of 10. Department of Biotechnology launched a new course in M.Sc. (Biotechnology); the intake was 21. Another new course launched was in the area of Library and Information Studies with intake of 20. The increase in intake by almost a third was possible solely because faculties in these departments cooperated by accepting additional workload. The university remains grateful for this magnanimous act.

This university, being the sole university of the state, needs to carefully monitor the growth of higher education system in the state and gauge the educational infrastructure that is

needed to meet the aspirations of the students at all levels, undergraduate, post-graduate and doctoral. We need to put in place a system that monitors the need of the students of the state regarding the courses that need to be conducted, intake in these courses, and associated issues. Perhaps the most suitable body of the university to take up this task is the Academic Council which enjoys representation from a wide cross-section of our higher education system in the state.

Growth of a university, either in terms of number of students it trains or the quality of education it imparts, is critically dependent on both the number of its teachers and their quality. For some time now well over a third of its sanctioned strength of faculty on the main campus of the university has remained unfilled, the university coping with the shortage through temporary appointments of various sorts. This is not a desirable mode of working at a university. This year Goa University took a major step towards correcting the anomaly by advertising all vacant positions, about 70 of them, from the approved strength of about 180.

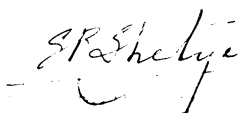
The university launched a novel programme this year, Visiting Research Professorship Programme, with the intent to bring new intellectual experience to the students and members of faculty on this campus, to the students and faculty in our fifty odd affiliated colleges, and to the citizens of the state. Between 2007 and 2012 the Department of Art and Culture, Government of Goa established six chair professorships named after six eminent Goans. The original idea behind instituting of these professorships was to attract academics of repute to serve as full-time professors at the campus of Goa University. It turned out, however, that well established academics were reluctant to relocate to Goa as full time faculty. The Executive Council of the university deliberated on this issue and then, in consultation with Department of Art & Culture, decided to convert these full time chairs into Visiting Research Professorships. In the present format, an academic willing to participate in this programme is invited to teach a course, or carry out a project, or take up some other intellectual activity to interact with the students and faculty from the main campus and from affiliated colleges of the university. I should place on record here the contribution made by Dr. Maria Couto, Member of the Executive Council of the university and now Honourary Director of the Visiting Research Professorships Programme, to launching of this programme. We are still experimenting with formats for implementation of the programme and quite a few challenges remain. Nonetheless, the programme has helped the university to inch towards its rightful place as the intellectual hub of the state.

It is well known that Goa has done well to make higher education accessible to the citizens of the state, with about a third of the age group 18-23 pursuing higher education, one of the highest in the country. There is, however, a sizeable fraction of our students who for varied reasons do not wish to follow the traditional route to education through high school, higher secondary school, and college. They, instead, wish to pursue careers based on acquisition of special skills and experience gained through employment. Goa University has in the past, from time to time, examined the possibility creating programmes to support such students. I think time is ripe to implement them in view of the projected deficit in skilled work-force of the country. A university can remain relevant only if it experiments with new methods of education, carefully gauges the impact, and evolves with what works for

the larger benefit of the society. A challenge that the university took up during 2013-14 is supporting community college-like institutions that, (1) can admit students without completion of higher secondary school, (2) impart skills-based education, (3) give high priority to employability of their students on completion of a course. We believe that by granting affiliation of such institutions, Goa University will add vibrancy to its system of education, and send a message that the university values employability of those who enter the higher education system. This belief prompted the university to put in place an ordinance, on the lines suggested by the University Grants Commission, to support setting up of community college programmes.

The 26th convocation ceremony held on 6 January 2014 marked conferment of Bachelor's degrees on 7296 graduates, Master's degrees on 1053 postgraduates, and Doctor of Philosophy on 31 doctorates. In addition, we have 123 recipients of postgraduate diploma holders. The convocation ceremony also saw distribution of 116 awards that included 66 Gold Medals, 35 Prizes, and 15 Scholarships.

The developments that I have highlighted just now have been possible only due to unstinting support received from the Ministry of Education, Government of Goa. Personal intervention of the Minister of Education, Shri Manoharbab Parrikar was important to get the new Science Block ready; this in turn helped us to keep our promise of enhancing intake and enlarging programmes. Announcement of intent to recruit faculty became possible because of the prompt approval received from the ministry. As noted earlier, the Department of Art and Culture's sanction of almost a crore rupees annually has made Visiting Professors Programme possible. We are looking forward to such continued cooperation from the Government of Goa to face the challenges and opportunities that we hope to take up during the next year. It is with great pleasure that I acknowledge the guidance, encouragement and wholehearted support that we received during our moments of need from our Chancellor, the Honourable Governor of Goa, Shri Bharat Vir Wanchoo. In addition, the University derives its confidence to face the challenges that lie ahead primarily because of the constructive guidance the university authorities have received from our Academic Council and Executive Council. It is solely because of such support that it has been possible to implement the developments that have been outlined here.



Dr. S. R. Shetye
Vice Chancellor

INTRODUCTION

Goa University has maintained a trajectory of steady and sustained growth since its inception in 1985, amalgamating Centre for Post Graduate Instruction and Research of the University of Bombay in Goa. Goa University has grown steadily in terms of its infrastructure, Departments, new courses and programmes, the number of affiliated colleges and recognized institutions.

The Annual Report of the University attempts to portray the spectrum of various academic and co-curricular activities at the University and its affiliated colleges. The Editorial Committee has candidly tried to capture the vibrant academic environment that exists in the University Campus and in the affiliated institutions highlighting on the research projects, research publications, participation in international seminars and workshops, special achievements including awards and honours, etc. The notable contributions made by the faculty members and some of the achievements of the students are reflected in the pages that follow. We wish the Annual Report 2013-14, is a sheer exposition of academic culture of Goa University and its affiliated colleges.

We thank, Dr. Satish Shetye, the honourable Vice-Chancellor of Goa University for his guidance, constant support and encouragement. We are thankful to the Heads of the Departments and Principals of affiliated Colleges for providing the information contained in this report. The Committee would like express its gratitude to Internal Quality Assessment Cell (IQAC) of Goa University for collecting and compiling the information from the Heads of the University Departments. The Committee wishes to thank all those who have contributed in bringing out this Annual Report.

Editorial Committee

P. K. Sudarsan	Convenor
R. Fernandes	Member
Jyothi Pawar	Member
A. A. A. Viegas	Member
Nilesh Borde	Member
Kedar Naik	Member

PART I: UNIVERSITY AUTHORITIES AND BODIES

1.1 Members of the Executive Council

Chairman

Dr. S. R. Shetye , Vice-Chancellor(Ex-officio)

Nominees of the Chancellor

Prof. Peter Ronald De Souza, Indian Institute of Advanced Study, Shimla

Dr. (Smt.) Maria Aurora Couto,1037, Sonctem, Carona, Bardez, Goa.

Shri Dattaraj V. Raj Salgaocar, Salgaoncar House, Vasco-da-Gama, Goa.

Dr. Rita Paes, Principal, Nirmala Institute of Education, Altinho, Panaji, Goa.

Adv. Carlos Alvares Ferreira, Near Head Post Office, Panaji,

Nominees of the State Government

Adv. Narendra Savaikar, Ponda, Goa

Shri Dinar Bhatkar, Panaji, Goa.

Shri Sudesh Gaude, House No.134, Gauthan, Khandepar, Ponda, Goa

Prof. Datta Bhikaji Naik, Porvorim, Bardez, Goa

Ex-officio Members

The Secretary (Higher Education), Government of Goa, Secretariat, Porvorim, Goa.

The Secretary (Finance), Government of Goa, Secretariat, Porvorim, Goa.

Nominees of the Vice-Chancellor

Dr. Mahesh Sardesai, Dean, Faculty of Medicine, Goa Medical College, Bambolim.

Prof. Y. V. Reddy, Dean, Faculty of Commerce, Goa University.

Shri Pravin M. Bhende, Principal, GVMs College of Commerce & Economics, Ponda.

Prof. A. V. Salker, Department of Chemistry, Goa University.

The Registrar, Goa University, Member Secretary (Ex-officio)

1.2 Members of the University Court

Chairman

Dr. S. R. Shetye , Vice-Chancellor(Ex-officio)

Nominees of the Executive Council

Deans of Faculties

Prof. N. S. Bhat, Dean, Faculty of Social Sciences

Prof. Y. V. Reddy, Dean, Faculty of Commerce

Prof. Nandakumar Mekoth, Dean, Faculty of Management Studies

Prof. Rajesh B. Lohani, Dean, Faculty of Engineering, Goa College of Engineering, Farmagudi, Goa.

Shri Arun S. Nadkarni, Dean, Faculty of Law, G R Kare College of Law, Margao.

University Professors

Prof. P. K. Sharma, Department of Botany
Prof. P. R. Rao, Department of Computer Science & Technology
Prof. Sarita Nazareth, Department of Microbiology
Prof. M. K. Janarthanam, Department of Botany
Prof. H. B. Menon, Department of Marine Science

Principles of Affiliated Colleges

Mrs. Carol Noronha, Institute of Nursing Education, Bambolim, Goa.
Dr. Gopalkrishna Rao, Goa College of Pharmacy, Government of Goa, Panaji, Goa.
Dr. (Sr) Aradhana A. C. Carmel College of Arts, Science & Commerce for Women,
Dr. AnuraBale Gomantak Ayurveda Mahavidyalaya & Research Centre, Shiroda.
Rev. Fr. Jose Walter Benigno, St. Xavier's College of Arts, Science & Commerce

Elected Members

Dr. Anthony P. Rodrigues, Fr. Agnel College of Arts & Commerce, Pilar, Goa
Dr. Naguesh Colvalkar, V. M. Salgaonkar College of Law, Miramar, Panaji, Goa.
Dr. Jude Rodrigues, Goa Medical College, Bambolim, Goa.
Dr. Madhu Ghodkirekar, Goa Medical College, Bambolim, Goa
Dr. B.P. Sarath Chandran Shree Damodar College of Commerce & Economics, Goa
Mrs. Tanya Marchon e Mascarenhas, Rosary College of Commerce & Arts, Navelim,
Shri Uday J. Amonkar, Goa College of Engineering, Farmagudi, Goa.
Dr. Tushar Shamba Anvekar, St. Xavier's College of Arts, Science & Commerce, Goa
Dr. Vidhyadatta M. Shet Verenkar, Department of Chemistry, Goa University.
Dr. Koshy Tharakan, Department of Philosophy, Goa University
Dr. Sanjeev C. Ghadi, Department of Biotechnology, Goa University.

Nominees of the Executive Council

President / Chairman, Dhempe Charities Trust, Dempo House, Panaji, Goa.
President / Chairman, Xaverian Educational Society, Pilar, Goa.
Chairman, Goa University Student's Council Goa University.

Nominees of the Chancellor

Padma Vibhushan Dr. Anil Kakodkar, Dept. of Atomic Energy Commission, Mumbai.
Prof. N. Balakrishnan, Associate Director, SERC, IISc, Bangalore – 560 012.
Shri Nitin Kunkolienkar, Former President of GCCI, C-25, Dona Paula, Goa
Shri Gerad D'Cunha, Architect, Porvorim, Goa.

Nominees of the State Government

Dr. Seetaram V. Korgaonkar, Medical Practitioner, Porvorim, Bardez, Goa.
Prof. Govind Parvatkar, Porvorim, Bardez, Goa.
Adv. (Ms.) Roshan Samant, Mapusa, Bardez, Goa.
Mrs. Nayana Nitin Bandekar, Vasco-da-Gama, Goa.

Representative of Non-teaching Staff

Shri M. Chakraborty, Head, Computer Centre, Goa University
Registrar, Goa University (Ex-officio)

1.3 Academic Council**Chairman**

Dr. S. R. Shetye , Vice-Chancellor(Ex-officio)

Deans of Faculties

Dean, Faculty of Language & Literature(Ex-officio)

Dean, Faculty of Performing, Fine Art & Music (Ex-officio)

Dean, Faculty of Social Sciences (Ex-officio)

Dean, Faculty of Natural Sciences (Ex-officio)

Dean, Faculty of Medicine (Ex-officio)

Dean, Faculty of Engineering (Ex-officio)

Dean, Faculty of Law (Ex-officio)

Dean, Faculty of Life Sciences & Environment (Ex-officio)

Dean, Faculty of Commerce (Ex-officio)

Dean, Faculty of Management Studies (Ex-officio)

Dean, Faculty of Design (Ex-officio)

Dean, Faculty of Education (Ex-officio)

University Professors

Prof. (Ms.) Irene Furtado, Department of Microbiology

Prof. Somayaji Ganesha, Department of Sociology

Prof. A. G. Chachadi, Department of Earth Science

Prof. Santosh G. Tilve, Department of Chemistry

Prof. S. M. Tadkodkar, Department of Marathi

Principals of Affiliated Colleges

Dr. Radhika Nayak, S.S. Dempo College of Commerce & Economics, Altinho.

Dr. Gopalkrishna Rao, Goa College of Pharmacy, Panaji, Goa.

Dr. Ida de Noronha de Ataide, Goa Dental College & Hospital , Bambolim, Goa.

Dr. R. V. Gaonkar, Smt. Parvatibai Chowgule College of Arts & Science, Margao.

Dr. Simao Diniz, Rosary College of Commerce & Arts, Navelim.

Shri Bhaskar Nayak, Govt. College of Arts, Science & Commerce, Quepem

Dr. Anil S. Dinge, Principal, Ponda Education Society's College of Arts and Science,

Shri Santosh B. Patkar, Saraswat College of Com. & Management Studies, Mapusa.

Dr. V. Mariappan, Agnel Institute of Technology & Design, Assagao, Bardez, Goa.

University Teachers

Dr. V. S. Nadkarni, Department of Chemistry

Dr. Koshy Tharakan, Department of Philosophy

Dr. Aftab A.S. Can, Department of Marine Science

Dr. Rahul Tripathi, Department of Political Science

Dr. Nandakumar M. Kamat, Department of Botany

Representative of SC/ST Category

Shri Prakash Shankar Velip

Ex-MLA of Quepem Constituency, Quepem Town, Goa.

Elected Members

Shri Nikhil Madhukar Varerkar, S.S. Dempo College of Com.& Economics, Altinho

Dr. Anthony P. Rodrigues, Fr. Agnel College of Arts & Commerce, Pilar, Goa

Dr. Ketan Govekar, Dhempe College of Arts & Science, Panaji, Goa.

Dr. Sanjay P. SawantDessai, Shree Damodar College of Com. & Eco., Margao, Goa.

Dr. Debasish Mazumdar, Smt. ParvatibaiChowgule College of Arts & Science,

Dr. Jeronimo G. RemigioMonteiro, PESs Shri Ravi S. Naik College of Arts & Science

Dr. Vikas Jivottam Pissurlekar, PESs Shri Ravi S. Naik College of Arts & Science

Shri Rajasekhar Bathini, St. Xavier's College of Arts, Science & Commerce, Mapusa

Shri Amrut Fati Naik, DM's College of Arts, Science and Commerce, Assagao,

NOMINEES OF THE CHANCELLOR

Fr. Romualdo D'Souza, Xavier Institute of Historical Research, Porvorim, Goa.

Prof. V. Shivkumar, No. 16, 1st Street, Sriram Nagar, East Tambaram, Chennai – 73.

Smt. Nandini Sardesai.D-1, Corinthian, Opp. Fariyas Hotel, Colaba, Mumbai-5

Smt. Pallavi Dempo, Chairman, Dhempe College of Arts & Science, Miramar, Panaji,

Shri P. F. X. D'Lima, Director, Goa Institute of Management, Sanquelim, Goa.

The Director, National Institute of Oceanography, Dona Paula, Goa, Ex-officio

Chairman, Goa Board of Sec. & Higher Secondary Examination, Porvorim, Ex-officio

Librarian, Goa University, Ex-officio

Registrar, Goa University, Ex-officio

1.4 Members of the Planning Board

Chairman

Dr. S. R. Shetye, Vice-Chancellor (Ex-officio)

Nominees of the Executive Council

Vice Chancellor, M. S. University, Vadodara

Prof. Y. V. Reddy, Dean, Faculty of Commerce

Shri Rajendra Arlekar, Hon. Speaker, Goa Legislative Assembly, Vasco

Nominees of the Vice-Chancellor

Shri P. F. X. D'Lima, Former Director, Goa Institute of Management, Sanquelim.

Dr. Pradeep Naik, Dean, Faculty of Medicine,

Dr. Allan Abreo, G.V.M.'s College of Education

Nominees of the Chancellor

Prof. Suhas P. Sukhatme, Former Director of IIT, Mumbai

Nominee of the University Grants Commission

Prof. W. Rajendra, Vice-Chancellor, Sri Venkateswara University, Tirupati – 517 502

Ex-Officio Member Secretary

Registrar, Member Secretary (Ex-Officio)

1.5 Members of the Finance Committee**Chairman**

Dr.S. R. Shetye, Vice-Chancellor (Ex-Officio)

Nominee of the Chancellor

Shri Raghuvir K. Pikle, Chartered Accountant, Govinda Building, Panaji

Nominees of the Executive Council

Shri Dattaraj V. Raj Salgaocar, Managing Director, V. M. Salgaocar & Bro. Pvt.Ltd.
Vasco-da-Gama, Goa.

Shri Rajendra Bhohe, Chartered Accountant, EDC Complex, Panaji

Members

Registrar, Goa University

Secretary, Higher Education, Government of Goa

Secretary (Finance), Government of Goa

Dean, Faculty of Commerce/Management(Ex-Officio)

Finance Officer, Goa University, Member Secretary (Ex-Officio)

1.6 Deans of Faculties

Prof. Ravindranath S. Mishra, Faculty of Languages & Literature

Prof. N. S. Bhat, Faculty of Social Sciences

Prof. J. B. Fernandes, Faculty of Natural Sciences

Prof. (Smt.) Saroj N. Bhosle, Faculty of Life Sciences & Environment

Prof. Y. V. Reddy, Faculty of Commerce

Prof. Nandakumar Mekoth, Faculty of Management Studies

Prof. Mahesh Sardesai, Faculty of Medicine

Prof. R. B. Lohani, Faculty of Engineering

Shri Arun S. Nadkarni, Faculty of Law

Shri M. V. Vengurlekar, Faculty of Performing, Fine Arts & Music

Vice Chancellor, Faculty of Education

Vice Chancellor, Faculty of Design

1.7 Officers of the University

Dr. Satish R. Shetye, ViceChancellor

Prof. V. P. Kamat, Registrar

Shri Uttam B. Naik, Finance Officer

Dr. V. Gopakumar, Librarian

Shri M. Shreedhara, Deputy Registrar (Academic)/General Administration

Shri D. A. E. Rodrigues, Deputy Registrar / Controller of Examination
 Shri M. Chakraborty, Head of Computer Centre
 Shri V. L. Sawkar, University Engineer
 Shri Milton Fernandes, Asstt. Director, Physical Education and Sports
 Dr. (Smt.) P. Sequeira, Medical Officer
 Shri Amit Srivastava, Executive Engineer
 Shri Sanjay Bhandodkar, System Analyst
 Shri Anselmo A. T. H. Rosa, System Analyst
 Shri Damodar M. Manjrekar, Programmer
 Shri Leo V. Macedo, Asstt. Registrar
 Shri Alberto Fernandes, Asstt. Registrar
 Smt. Bertha T. A. D'Mello e Daniel, Asstt. Registrar
 Smt. Maya R. Sawant, Asstt. Registrar
 Smt. Sita S. J. Figueiredo, Asstt. Registrar
 Shri Ashok J. Nagarsekar, Asstt. Registrar
 Smt. Sharayu J. Chari, Asstt. Registrar
 Smt. Maya S. Gaitonde, Asstt. Registrar
 Shri Sangam S. Talaulikar, Asstt. Engineer
 Shri Rajnikant S. Parsekar, Asstt. Engineer
 Shri Sachin G. Narvekar, Asstt. Engineer
 Smt. Sandhya S. S. Neurekar, Asstt. Registrar
 Shri Amey Verenkar, Asstt. Registrar
 Shri Kedar Naik, Asstt. Registrar

1.8 Other Bodies/Associations and their Composition

Goa University Teachers' Association (GUTA)

Prof. B. F. Rodrigues, <i>Chairman</i>	Prof. Sarita Nazareth, <i>Vice-Chairperson</i>
Dr. V. M. Vernekar, <i>Jt. Secretary</i>	Dr. Rahul Tripathi, <i>Secretary</i>
Prof. S. K. Shyama, <i>Treasurer</i>	Prof. B. R. Srinivasan, <i>Member</i>
Dr. P. K. Sudarsan, <i>Member</i>	Prof. Koshy Tharakan, <i>Member</i>

University and College Teachers' Association of Goa (UCTAG)

Dr. Sanjay Sawant Dessai, <i>President</i>	Dr. Tushar S. Anvekar, <i>Vice President</i>
Dr. B. P. Sarath Chandran, <i>Gen.Secretary</i>	Shri Nityanand Naik, <i>Treasurer</i>
Dr. Anthony Rodrigues, <i>Jt.Secretary</i>	

Executive Committee of the Association of Officers of Goa University

Shri Mrityunjoy Chakraborty, <i>President</i>	Shri A. Fernandes, <i>Member</i>
Shri Ashok Nagarsekar, <i>Secretary</i>	Smt. B.T.A. D'Mello e Daniel, <i>Member</i>
Smt. Sharayu Chari, <i>Treasurer</i>	Shri Milton Fernandes, <i>Member</i>

Executive Committee of the Goa University Non-Teaching Employees Association

Shri Ganadhish V. Keny, <i>President</i>	Smt. Prarthana Naik, <i>Member</i>
Shri R. P. Naik, <i>Vice-President</i>	Shri Renato Dias, <i>Member</i>
Shri Godwin T. Afonso, <i>General Secretary</i>	Shri S. Shetgaonkar, <i>Member</i>

Shri Krishna G. Pai, *JointSecretary*
Shri Santosh R. Vernekar, *Treasurer*

Shri Usman S. Ali Shaikh, *Member*
Shri Yoganand Kholkar, *Member*

University Employees Co-operative Credit Society

Shri Shaikh M. Aslam, *Chairman*
Shri Gangaram Naik, *Secretary*

Shri Ganadhish Keny, *Vice-Chairman*
Shri Nanda Gawas, *Treasurer*

1.9 Meetings of University Authorities and Bodies

Dates of Executive Council Meetings

27th July 2013
16th October 2013
6th January 2014
7th March 2014
25th April 2014

Dates of Academic Council Meetings

23rd July 2013
4th September 2013
9th September 2013
2nd January 2014
21st February 2014
16th April 2014
23rd April 2014
23rd May 2014

Dates of Court Meetings

29th August 2013 (Special)
25th March 2014

PART 2:

UNIVERSITY DEPARTMENTS/CENTRES/PROGRAMMES

2.1: Faculty of Languages and Literature

Departments and Degrees:

Department of English	(M.A.,M.Phil., Ph. D.)
Department of Hindi	(M.A., M.Phil., Ph. D.)
Department of Konkani	(M.A., M.Phil., Ph. D.)
Department of Marathi	(M.A., M.Phil., Ph. D.)
Department of French	(M.A., Ph. D.)
Department of Portuguese	(M.A., Ph. D.)

FACULTY BOARD

Dean, Faculty of Languages & Literature	Chairman (Ex-Officio)
Head, Department of English	Member (Ex-Officio)
Head, Department of Hindi	Member (Ex-Officio)
Head, Department of Marathi	Member (Ex-Officio)
Head, Department of Konkani	Member (Ex-Officio)
Head, Department of Portuguese	Member (Ex-Officio)
Head, Department of French	Member (Ex-Officio)
Prof. K. Sripad Bhat	Member (Ex-Officio)
Prof. Ishrat Bi Khan	Member (Ex-Officio)
Prof. Sudhir M. Tadkodkar	Member (Ex-Officio)
Prof. Nina Caldeira	Member (Ex-Officio)
Dr. Andre Rafel Fernandes	Member
Dr. Vrushali S. Mandrekar	Member
Shri Prakash Parienkar	Member
Dr. B. G. Kanolkar	Member
Shri Da Silva Delfim Correia	Member

Department of English

Faculty:

Full-time

K. Sripad Bhat, Ph.D., Professor - Literary theory, Critical Theory and Cultural studies

K. J. Budkuley, Ph.D., Professor and Head - British Poetry, Culture and Gender Studies; Translation Studies; Indian Literature; Konkani Writing and Folklore

Nina Caldeira, Ph. D., Associate Professor- Goa Cultural Studies, Postcolonial Literature, Linguistics, American Literature (On Sabbatical Leave from December 2013)

Andre Rafael Fernandes, Ph.D., Associate Professor - Novel, Commonwealth literature, Language laboratory, Tiatr

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Prof. Edwin Thumbbo	University of Singapore, Singapore	"Many Diasporae...Single Perception"	Oct2013

Major Thrust Areas and Achievements:

The Department specializes in Cultural Studies, Gender Studies, Postcolonial Studies and Fiction Studies. The Department also has an Advanced Language Laboratory. More recent thrust areas of the Department have been Goa-related Studies and Translation Studies. The Faculty has published books/ articles on Konkani Tiatr and Goan Literature and Cultural Studies, and, undertakes consultancy work related to State Official Language, Translation Studies and Critical Work. Department has also introduced Media Studies and Critiquing Goan Writing in English Translation as Optional Courses of contemporary relevance

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
Cynosure-2014	23 Feb 2014	Goa University (partially); mostly Sponsorship
Goa Matters	30 Apr 2014	Goa University
<i>Anuvadini</i> : Advanced Workshop on Translation	5-10 May 2014	World Konkani Centre, Mangalore

Research publications:

Articles in journals (in SCI Journals)*

- Budkuley, K. Modern Konkani Classics: Deluge to Cataclysm. *Muse India*. 50 (Jul-Aug – Special Issue on Goan Literature); 2013; <http://www.museindia.com>
<http://www.museindia.com/viewarticle.asp?myr=2013&issid=50&id=4272>
- Falari, B.; Budkuley, K. Women on Celluloid: Portrayal of Women in Hindi Cinema. *The Literati: TransNational Journal*. 3(1); 2013; 46-50.

PhDs:

Degrees awarded:01

Thesis submitted:02

Students on roll:14

Invited lectures, Conference presentations, etc.*Invited lectures*

- Fernandes, A.R. TiNai Eco-film Festival. Symposium, Dept of Humanities & Social Sciences. BITS Pilani, Goa Campus. 31 Jan-1 Feb 2014.
- Budkuley, K.J. Translation as a Space within a Space: A Comparative Perspective. *16. Int. Conf. Translation, Comparatism and the Global South*. Forum on Contemporary Theory, Baroda and Department of English Studies, University of Mysore, at Mysore, 15-18 Dec 2013.

Department of Hindi

Faculty:

Full-time

Ravindranath S. Mishra, Ph.D., Professor - Medieval, Modern and Contemporary

Ishrat Bi Khan, Ph.D., Professor and Head - History of Hindi Literature, Functional Hindi & Katha Sahitya

Vrushali S. Mandrekar, Ph.D., Associate Professor - Short Story, Comparative Literature

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Prof. S. Sitanshu	Noted Hindi critic writer & Former Prof. & Head, Department of Hindi Amritsar University, Punjab	Godan ka Mullyankan and Uttar aadhunikta awdharna evam swaroop	10 Feb 2014
Prof. Yagyaprasad Tiwari	Former Prof & Head, Department of Hindi, Nagpur University	Cotemporary Hindi poetry, awdharna evam swaroop	11 Feb 2014
Prof. Rajendra Mishra	Noted Hindi critic writer & Former Principal of PG College, Indore	Bhartiya Sahitya: Awdharna evam swaroop	12 Feb 2014
Prof. B.D. Mishra	Former Prof & Head, Department of Hindi, Goa University	Dhumil ke Kavya ka mulyankan	21 Feb 2014
Prof. S. Ransubhay	Former Prof & Head, Department of Hindi, Marathwada University, Aurangabad	Dalit sahitya ka mulyankan	26 Feb 2014

Major thrust areas and achievements:

Comparative literature

Translation

Folk literature

Contemporary literature

Indian literature

Seminars, conferences, workshops, etc., organized:

Programme	Dates	Funding
हिंदी एवं कोंकणी कथा साहित्य: तुलनात्मक अध्ययन [Hindi Evam Konkani Katha Sahitya : Tulnatmak Adhyayan]	8 Jan 2014	Goa Konkani Academy
इक्कीसवीं सदी का भारतीय साहित्य [Ekkisavi sadi ka Bhartiya Sahitya]	13-14 Feb 2014	Central Hindi Directorate New Delhi & Dr. Arvind Pandey Manch

Research publications:

Articles in Journals

- Mandrekar, V.S. प्रेमचंद साहित्य एवं गोमंतकीय लेखन [Premchand sahitya evam Gomantakiya lekhan]. *Goa Puri*. 8; 2013; 45-48.
- Mandrekar, V.S. होस्टल के पन्नों से: परिवर्तित युवा संस्कृति [Hostel ke pannho se: Parivartit yuva sanskruti]. *Navnikash*. (5); 2013; 35-36.
- Mishra, R.S. नीलेश रघुवंशी की काव्य संवेदना [Neelesh Raghuvanshi ki kavya samvedna]. *Bharatvani (Dharwad)*. 4; 2013; 11-14.
- Mishra, R.S. कोंकणी साहित्य सर्वेक्षण [Konkani sahitya sarvekshan]. *Bhartiya Sahitya Sarvekshan, Kendriya Hindi Nideshalaya (New Delhi) Varshiki*. 2010. 10; 2013; 15-20.
- Khan, I.B. उर्दू उपन्यासों में भारतीय संस्कृति [Urdu Upanyaso mein bhartiya sanskriti]. *Antarastriya Saudhantik Samiksha*. 2(1); 2014; 36-39.
- Khan, I.B. स्त्री विमर्श के दरिये में सिमती हिंदी कहानी [Stree vimarsh ke dayre mein simti hindi kahani]. *GoaPuri*. 8(Jan-Mar); 2014; 90-94.
- Khan, I.B. पद्मावत में अभिव्यक्त लोक जीवन [Padmavat mein abhivyaktya lok jeevan]. *University Hindi Journal*. 2(1); 2014; 42-48.
- Mandrekar, V.S. समकालीन कहानियाँ: वास्तविकता की पहचान [Samkallen kahaniya: Vastavikta ki pahchan]. *Antarastriya Saundhatik Samiksha*. 2(1); 2014; 46-50.
- Mandrekar, V.S. मराठी आत्मकथा [Marathi aatmakatha]. *Goapuri*. 8(special issue); 2014; 81-84.
- Mandrekar, V.S. सेज पर संस्कृत: धर्म की आग में पल रही अपसंस्कृती का कोरा छीटा [Sej per sanskruit: Dharma ki aad mein pal rahi apsanskriti ka kora chitta]. *University Hindi Journal*. 2(1); 2014; 62-66.
- Mandrekar, V.S. ग्रामीण जीवन: शोषण का दस्तावेज [Gramin jeevan: Shoshan ka dastavej]. *Vad-Samvad*. 2(1); 2014; 107-112.
- Mishra, R.S. कोंकणी साहित्य सर्वेक्षण [Konkani sahitya sarvekshan]. *Bhartiya Sahitya Sarvekshan, Kendriya Hindi Nideshalaya (New Delhi) Varshiki* 2011. 11; 2014; 31-38.

Articles in Books

- Khan, I.B. राजभाषा हिंदी, मिडिया और वैश्विकरण: हिंदी की राजभाषा पत्रिका [Rajbhasha Hindi, media aur vaishvikaran: Hindi ka rajbhasha patrika]. *Rohitashav*. 2013; 63-67.

Books and monographs

- Mishra, R.S. अंतिम दशक की हिंदी कविता [Antim dashak ki Hindi kavita]. Lokbharti Prakashan, Allahabad. 2013; 196pp.
- Mishra, R.S. मिडिया और लोकतंत्र [Media aur Loktantra]. Vani Prakashan, New Delhi (ISBN: 978-93-5072-412-5). 2013; 126pp.

PhDs:

Students on roll: 13

Invited lectures, Conference presentations, etc.

Invited lectures

Mishra, R. N. Vartman Sandarbh Aur Hindi Ka Swarup (TV Talk). *Doordashan Kendra, Panaji*. 16 Sep 2013.

Conference presentations

- Khan, I.B. Fire Arear Upanyas mein Pratirodh ke swar. *Bhartiya Upanyas Paryavaran & Pratirodh Prayas Sansthan*. Goa Board, Porvorim Goa. 30 Nov 2013.
- Mandrekar, V.S. Savdhan niche aag hai: Pratirodh ke swar. *Bhartiya Upanyas Paryavaran & Pratirodh Prayas Sansthan*. Goa Board, Porvorim Goa. 30 Nov 2013.
- Mandrekar, V.S. Hindi evam Konkani kahaniyoo ka tulnatmak aadhayan. *21st sadi ka Hindi avam Konkani Kathasahitya: Tulnatmak Addhayanmahila katha – lekhan: Dasha avam Disha*. Dept. of Hindi, Goa University & Konkani Academi. 8 Jan 2014.
- Mandrekar, V.S. Hindi Kahaniyo mein Gramin Jeevan. *Hindi, Konkani, Marathi sahitya mein Gramin Jeevan*. Gomantak Rastra Bhasha Vidyapeeth & Kendriya Hindi Nidheshalaya Delhi. 29–30 Mar 2014.
- Mandrekar, V.S. Jayashree Roy ki kahaniya: Ek aadhayan. *Jayanti Nayak ani Jayashree Roy hancho katha: Ek abhyaas*. Govt. College Khandola & Goa Konkani Academi. Govt. College, Khandola. 4 Sep 2013.
- Mandrekar, V.S. Konkani Kahanio mein shtree vimarsh. *Hindi, Konkani and Marathi Sahitya*. IMB Goa Conference Hall. 29 Apr 2014.
- Mandrekar, V.S. Ekkiswin sadai ke Konkani upnyas. *Ekkiswin Sadi ka Bhartiya Sahitya*. Department of Hindi, GU, Kendriya Hindi Nideshalay, Delhi. 13-14 Feb 2014.
- Mandrekar, V.S. Natko mein Dalit vimarsh. *Dalit sahitya vividh aayam*. Dept. of Hindi, University of Calicut. 4-5 Mar 2014.
- Mandrekar, V.S. Mahila kavya: Stree vadi Aayam. *Stree lekhan vividh aayam*. Women's college Bijapur. 26–27 Mar 2014.
- Mishra, R.S. Vartman Paridrishya Evam Sahitya. *Int. Sem. Pandit S.N. Shukla P.G. College, Shahdol, M.P. and Bharteeya Sahitya Parishad, Allahabad, Surat*. 26-27 Oct 2013.

- Mishra, R.S. Tulsidas ka Hindi Sahitya Mein Yogdan. *Seminar on Sant Kabeer Tatha Tulsidas Ka Hindi Sahitay Mein Yogdan*. C.B.Khedgi's Basaveshwar Science Raja Vijaysinh Commerce & Raja Jaysinh Arts College, Akkalkot, Solapur. 20-21 Dec 2013.
- Mishra, R.S. Madhya Kaleen Hindi Kavya: Tulsidas ke Sandarbh Mein. *Seminar on Hinditar Bhasha Bhashi Pradesho Mein Hindi aur Sahitya Seekhne sheekhane Sambadhi Aadhunik Takneek*. Mahatma Gandhi Memorial College, Udupi, Karnataka. 10-11 Jan 2014.
- Mishra, R.S. Bhumandlikaran aur Ekkishvi Sadi ki Hindi kavita. *Seminar on Bhumandlikaran Aur Hindi ka Badalta Swarup*. K.C. College and Kendriya Hindi Sansthan, Agra, U.P. Organized at Mumbai. 28 Feb-1 Mar 2014.

Awards and honours:

A student Ms. Samira Yedve was awarded by Prayas Hindi Sansthan, Panaji, Goa for securing first place in Hindi essay writing competition in the year 2013.

Department of Konkani

Faculty:

Full-time

Priyadarshini Sudhir Tadkodkar, M.A., Associate Professor and Head - Modern Konkani Prose, Criticism, Konkani Tiatro, Indian Poetics

Madhavi Sardesai, Ph.D., Associate Professor – General linguistics, sociolinguistics, works of Shennai Goembab and translation studies

Prakash S. Pariekar, M.A., Assistant Professor - Sociology of Literature, Old Konkani Language & literature, Konkani Folk Literature

Visiting scholars:

Name of the Scholar	Designation	Title of Lecture	Date
Mrs. Hema Naik	Konkani writer and sahitya Academy award winner	Creation of a Konkani Novel 'Bhogdand'	26 Aug 2013
Shri R. Ramnath	A Konkani poet	Writings of poetry	10Feb 2014
Mrs. Jaimala Danait	Short story writer	On writing of Short stories	12 Mar 2014
Prof. Shirish Gopal Deshpande	Prof & head SNDT University, Mumbai	Viewing & appreciation of Cinema	12Mar 2014

Major Thrust Areas and Achievements:

Development of Konkani language, literature and culture; Modern Konkani prose and poetry, Sociological study of literature, Theory of literature through Indian & Western poetics. Published articles in various journals; Presentation of research papers in National and State Seminars

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
15. युवा कोंकणी साहित्य संमेलन [Yuva Konkani Sahitya Sammelan]	14-15 Dec 2013	Goa Konkani Academy, Panaji
Seminar on कोंकणी प्रसार माध्यमं आनि सिनेमा [Konkani Prasar Madhyama Aani Cinema]	21 Mar 2014	Goa University

Research publications:

Articles in journals (in SCI Journals)*

- Pariekar, P.S. कोंकणी कादंबरेचो समाजाचेर पडिल्लो प्रभाव आनि परिणाम [Konkani Kadambarecho Samazacher Padill'o prabhav ani parinnam]. *Sod.* 17(); 2013; 76-90.
- Tadkodkar, P.S. माधव बोरकर हांची कविता यमनाच्या संदर्भात [Madhav Borkar haan-chi kavita yamanachya sandarbhant]. *Govapuri.* 8(1); 2013; 148-167.

- Tadkodkar, P.S. शांताराम हेदे हांचे आंकारित कथासाहित्यजन [Shantaram Hede haanche annkaarit kathasahitya jan]. *Goavapuri*. 8(Feb); 2014; 36-45.

Articles in books, conference proceedings:

- Pariekar, P.S. समकालीन देवनागरी कोंकणी कादंबरी: सद्यस्थिती आणि फुडार [Samakalin Devnagari Konkani Kadambari: Saddy Stithi Ani Fudar]. *Samkalin Bhartiya Sahitya*. Carmel College, Nuvem, Goa. 2013; 104-115.

Books and monographs

- Pariekar, P.S. आमचें आमी [Amche Ami] - *Poetry book in Konkani*. Shalmali Creations, Dhava-Tar, Valpoi, Sattari, Goa. ISBN- 978-81-920961-2-4, Aug 2014. 131pp.

Awards and honours:

The book '*Mhadei Kallzantlyan Kagdar*' authored by P.S. Pariekar has been awarded with '*Utkrust Granth Puraskar*' in Research category for the year 2013 by Goa Konkani Academi, Panaji, Goa.

Invited lectures, Conference presentations, etc.

Invited lectures

- Tadkodkar, P.S. त्रिभाषिक अर्थकोश [Tree bhashik Arthakosh]. *A keynote address at a programme on release of Konkani English and Kannad Dictionary*. Pathadarshini Trust, Mangalore. 26 Mar 2014.

Conference presentations:

- Pariekar, P. S. कोंकणी कादंबरेचो समाजाचेर पडिल्लो प्रभाव आणि परिणाम [Konkani Kadambarecho Samazacher Padill'o prabhav ani parinnam]. *Konkani Sahityacho Samazacher Prabhav*. Thomas Stephens Konknni Kendr, Porvorim, Goa. 6 Dec 2013.
- Pariekar, P. S. साहित्यकार महाबळेश्वर सैलांचे कोंकणी कादंबरीच्या मळार योगदान [Sahityakar Mahabaleshwar Sailanchem Konkani Kadambarechya Mallar Yogdan]. *21vya Shekdyantli Konkani Kadambari*. St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa. 7 Dec 2013.
- Tadkodkar, P. S. आधुनिक कथासाहित्य - कोंकणी कथेच्या संदर्भात [Anaadhunik Katha Sahitya Konkani Kathechya Sandarbhint]. *Anuadhunik Katha Sahitya*. Sardar Patel University and Gujarat Sahitya Akademi, Gandhinagar. 1 Mar 2014.
- Tadkodkar, P. S. कोंकणी बालसाहित्यातले पर्यावरण [Konkani Baal Sahityantale Paryavarana]. *Seminar on Sahitya Aani Environment*. Department of Gujarati, S.N.D.T. University, Mumbai. Nov 2013.

Department of Marathi

Faculty

Full-time

B. G. Kanolkar, Ph.D., Associate Professor – Modern form of literature

V. D. Sawant, Ph.D., Professor and Head – Literary theory & criticism, Modern Marathi literature, Literary form-The novel

S. M. Tadkodkar, Ph.D., Professor– Theories and literature, Translation studies, Christian Marathi literary tradition during The sixteenth century in Goa

S. Umraskar, Ph.D., Assistant Professor – Linguistics, Medieval Marathi literature and modern form of literature

Major Thrust Areas of Research and Achievements

- Modern form of literature, Literary theory & criticism, Modern Marathi literature, Literary form-The novel, **Theories and literature, Translation studies, Christian Marathi literary tradition during The sixteenth century in Goa, Ph.D.**, Assistant Professor – Linguistics, Medieval Marathi literature and modern form of literature

Research publications

*Articles in journals: (*SCI Publications)*

- Tadkodkar, S.M. आचार्य धर्मानंद कोसंबी [AachaaryaDharmaanandKossambi]. *Govapuri*. 8(3); 2013 ; 35-42
- Tadkodkar, S.M. गोमंतकाचा वारसा-डॉ. वि. ब. प्रभुदेसाई [GomantakachaWaarasa – Dr. V. B. Prabhudessai]. *Govapuri*. 7(1); 2013 ; 8-29
- Tadkodkar, S.M. पुरुषोत्तम केशव काकोडकर [PurushottamKeshavKakodkar]. *Govapuri*. 8(1); 2013 ; 107-110
- Umraskar, S. मराठीतील स्त्रियांची आत्मचरित्रे: एक दृष्टीकोन [Marathitilstriyanchiatmacharitre: Ekdrushtikon]. *Govapuri*. 8; 2014 ; 40-47

Books and monographs

- Tadkodkar, S. M. पाण्यातील पावले [PaannyaateelPaawalay], (An anthology of research articles in Marathi). ShabdaalyaPrakaashan, Shrirampoor, July 2013, 268pp. ; ISBN 978-93--80617-37-4

PhD Students

Students on roll : 18

Honours and awards

- Tadkodkar, S.M. **Subject Expert: Translation Studies** at: *Workshop on Preparation of Glossaries in Konkani*. National Translation Mission, CIIL, Mysore at State Central Library, Panaji. 3-14 Oct 2013

- Tadkodkar, S.M. **Programme Co-ordinator** at: *Marathi-Konkani-English Tri-Lingual Dictionary*. Western Regional Language Centre, Pune (CILL, Mysore) at Deccan College, Pune. 27 Jan-Feb 2014

Invited lectures, Conference presentations, etc.

Conference presentations

- Tadkodkar, S.M. Rewriting History of Goan Marathi Literature. *Rewriting History of Literature*. SahityaAkademi, New Delhi at North Maharashtra University, Jalgaon (Maharashtra). 10-11 Jan 2014

Department of French & Francophone Studies

Faculty:

Full-time

Anuradha Wagle, Ph.D., Associate Professor and Head - Translation, Linguistics, Teaching Methodology

Irene Silveira, M.A. Assistant Professor- French and Francophone Literature , Culture Studies, Teaching Methodology

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Ms. Aurélia Lassaque	Université Montpellier III Paul Valéry	Langues et poésie	16 September 2013
Prof. Philippe Guinet	Association Passeur des Mots	Scène des mots: Expression orale	27-31 Jan 2014

Major thrust areas and achievements:

Literature, Translation, Methodology, Functional French, Language Proficiency and Cultural Studies.

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
Workshop on literary theatre	27-31 Jan 2014	Association Passeurs des Mots and Goa University

Research publications:

Books and monographs

- Wagle, A.; Meyer, D. *Au Bord de l'Inde : portraits d'objets, d'icônes et célébrités. Goyal Publishers, Delhi.* January 2014, ISBN No 976-6-163-07569-5. 2014; 179p.

PhDs:

Students on roll:03

Placement details: 04

Invited lectures, Conference presentations, etc.

Conference presentations:

- Wagle, A. L'enseignement des langues : naturellement entre le local et le global (Language teaching: naturally between the local and the global). *Int. Federation of French Professors (FIPF)*. National University, Heredia, Costa Rica. 4-7 Feb 2014.
- Wagle, A. Le penser local et la célébration de la diversité culturelle dans le cours de langue (Think local to celebrate cultural diversity in the language class). *Int. Federation of French Professors (FIPF)*. National University, Heredia, Costa Rica. 4-7 Feb 2014.

Department of Portuguese

Faculty:

Visiting faculty

Delfim Correia da Silva, *M.Phil.*, Visiting Lecturer - Portuguese literature and culture, Linguistics, Teaching methodology of Portuguese as foreign language.

On contract

Marise D'Lima, *M.A. in Portuguese*, (contract) - Indo-Portuguese literature.

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Patrícia Vieira	Georgetown University (U.S.A.)	Cinema in the Portuguese new State: The portrayal of an idealized society	25 Jun 2013

Seminars/ Conferences, etc., organized

Programme	Dates	Major Sponsors
Workshop for teachers of Portuguese in Goa	Jul 2013	Goa University

Research publications:

Articles in books, conference proceedings:

- DaSilva, D.C. In the quest of the Magna Portuguese language. Colóq. Int. e Transdisciplinar, Viagens de longo curso: roteiros e mapeações. 15 May 2014. Universidade Católica Portuguesa, Faculdade de Letras da Universidade de Lisboa e ISCTE-IUL, Lisbon, Portugal. 2014; 1-15.

Awards and honours:

- Renée Pinto, A student of M.A. in Portuguese, was awarded with one year scholarship by Camões I.P. to study in Portugal in 2013-2014.

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- DaSilva, D.C. The Gulbenkian Foundation and the Portuguese Contemporary Cinema. *Sunaparanta, Goa*. 19 Sep 2013.
- DaSilva, D.C. Southern Europe in Crisis-Challenges and Prospects by Michael Marder. *CLP/Camoes, Goa*. 28 Jun 2014.

Other information:

The Department promoted *India4Eull* programme that offers scholarships for study, research, training in Europe at different levels. This is coordinated by Politecnico di Torino (Italy) and Amrita University. The students applied for the programme for study at the University of Porto (Portugal).

2.2: Faculty of Social Sciences

Departments and Degrees:

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

FACULTY BOARD

Dean, Faculty of Social Sciences	Chairman (Ex-Officio)
Head Department of Economics	Member (Ex-Officio)
Head Department of History	Member (Ex-Officio)
Head Department of Philosophy	Member (Ex-Officio)
Head Department of Sociology	Member (Ex-Officio)
Teacher Incharge, Department of Political Science	Member (Ex-Officio)
Teacher Incharge, CLAS	Member (Ex-Officio)
Prof. (Ms.) Pratima P. Kamat	Member (Ex-Officio)
Dr. P. K. Sudarshan	Member
Dr. Nagendra Rao	Member
Dr. Koshy Tharakan	Member
Dr. Prakash Desai	Member
Dr. Joana Coelho	Member

Department of Economics

Faculty:

Full-time

Silvia Maria de Mendonca e Noronha, Ph.D., Professor and Head (from December 2013) - Labour Economics & Industrial Relations

P.K. Sudarsan, Ph.D., Professor - International economics, Econometrics

Pranab Mukhopadhyay, Ph.D., Professor and Head (till December 2013)- Macroeconomics, Environment, Development

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Prof. Romar Correa	Mumbai University	Teaching of Economics	14 Mar 2014
Prof. Vishwanatha	Mangalore University	UG Syllabus	14 Mar 2014
Prof. Y. K. Alagh	Chancellor, Central University of Gujarat and Former Minister of Power, Planning Science and Technology, GOI	Future of Technology in Indian Agriculture: Growth with Food Security	24 Mar 2014

Major thrust areas: Environment, Labour & International Economics

Achievements:

The Department was able to improve it's infrastructure.

It also improved research linkages.

Incremental Infrastructure: Laptop, Printer, LCD Projector, Additional chairs & tables for M.A. I classroom, 2 Interactive Boards.

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs) Lakhs
Mukhopadhyay, P.	Ongoing	Technical Support	ICIMOD	0.60
Mukhopadhyay, P.	Completed	Evaluation of State Finances in India with specific reference to Goa	Fourteenth Finance Commission, Government of India	2.5

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
Int. Seminar organized by Goa Economic Association (GEA), in association with Indian Economic Association (IEA) & Dept. of Economics, Goa University	11-12 Nov 2013	IEA, GEA & Goa University
Workshop on Review of BA Economics Courses in Goa University	14 Mar 2014	Goa University
Dr. G.V. Kamat Helekar Memorial Lecture: Future of Technology in Indian Agriculture: Growth with Food Security by Prof. Yoginder K. Alagh, Chancellor, Central University of Gujarat and Former Minister of Power, Planning Science and Technology, GOI	24 Mar 2014	Goa University

Research publications:**Articles in journals (* in SCI Journals)**

- **Mukhopadhyay, P.** Operationalizing environmental-economic national accounts: A brief report on a workshop on valuing and accounting for the environment in Asia. 8-10 Oct 2013. *South Asian Network for Development and Environmental Economics (SANDEE)*. 75; Feb 2014; 6pp. <http://www.unescap.org/resources/operationalizing-environmental-economic-national-accounts-brief-workshop-report>

Articles in books, conference proceedings:

- **Fernandes, A.R.; Noronha, S.M.** Product profile and market analysis of the pharmaceutical companies registered in Goa. *Goan Economy: An Analysis of Select Issues*. Ed. by: S.M. Noronha. Broadway Publishers and Distributors, Panaji, Goa. 2014; 148-166.
- **Noronha, S.M.** Trends in the employment pattern in Goa. *Goan Economy: An Analysis of Select Issues*. Ed. by: S.M. Noronha. Broadway Publishers and Distributors, Panaji, Goa. 2014; 1-26.

Books and monographs

- Noronha, S.M. (Ed.) *Goan Economy: An Analysis of Select Issues*. Broadway Publishers and Distributors, Panaji, Goa. (ISBN: 9789380837970). 2014; 195pp.

PhDs:

Thesis submitted: 01 Students on roll: 14

Awards and honours:

- Mukhopadhyay, P.: acted as the Secretary of the Indian Society of Ecological Economics (2012-14)
- Mukhopadhyay, P.: Member, Scientific Advisory Committee of the 7th Biennial Conference of INSEE (Global Change, Ecosystems and Sustainability), Tezpur University, 4-8 Dec 2013

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Sudarsan, P.K, Career Advancement Scheme Under New UGC Regulation 2010, at 90th Orientation Course organized by UGC –Academic Staff College, Goa, 13 Nov, 2013.

Conference Presentations:

- Mukhopadhyay, P. Research Writing and Project Formulation. *Research and Writing Workshop in Environmental and Natural Resource Economics*. Royal University of Bhutan. 6-9 Aug 2013.
- Mukhopadhyay, P. Accounting and Valuing for the Environment in the Asia region. *Workshop on valuing and accounting for the environment in Asia*. UN Convention Centre, Bangkok. UNEP. 8-10 Oct 2013.
- Mukhopadhyay, P. Environment and Corruption. *Black Economy in India, its Global Dimensions and Impact on Policies*. Jawaharlal Nehru University, New Delhi. 9-11 Dec 2013.
- Mukhopadhyay, P. Themes in Environmental Economics Research. *Research and Writing on Environmental Economics and Policy*. Kerala Agricultural University, Thrissur. 18-22 Jan 2014.
- Sudarsan, P.K. Political Economy of India's Free Trade Agreements with ASEAN. *Nat. Conf. on India's Political Economy in Transition: The Crisis of Governance, Democracy and Development* organized by Department of Political Science, Goa University. 21-22 Dec 2013.
- Sudarsan, P.K. Rupee Depreciation and its impact on Macroeconomic variables of India. *Nat. Seminar on Challenges of Depreciating Indian Rupee on Higher Trajectory of Growth*. Department of Economics, Gudleppa Hallikeri College, Haveri. 24-25 Jan 2014.
- Sudarsan, P.K. Emerging Trends in Mathematics and Statistics and its Applications in Commerce. *Nat. Seminar on Applications of Econometrics in Commerce*, Gopal Govind Poy Raiturcar College of Commerce and Economics, Ponda, Goa, 8 Feb 2014
- Sudarsan, P.K. Introduction to Various Scientific Packages Available for Research, The CES College of Arts and Commerce, Cuncolim, Goa, Nat. Workshop on "Effective use of Excel and SPSS Software for Social Sciences Research" 6-7 Dec, 2013

Department of Sociology

Faculty:

Full-time

Ganesh Somayaji, Ph.D., Professor and Head - Social Theory, Sociology of Food, Sociology of Language

Antonio Alito Siqueira, M.A., Associate Professor - Pedagogy, Culture and Development

Joanna P. Coelho, Ph.D., Assistant Professor - Political Sociology

Major Thrust Areas and Achievements:

Development related issues, refugees, and pedagogy were the major research interest areas of the faculty during the year.

Projects:

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)
Coelho, J.P. (Principal Investigator) and Somayaji, G. (Co-investigator)	Ongoing	Constructing Nation in the Diaspora: Political Sociological Study of the Tibetan Refugees in Bailakuppe Settlements in South India	ICSSR (WRC) Mumbai	1.00

Research publications:

Articles in books, conference proceedings:

- **Coelho, J.P.; Somayaji, G.** Whither national rehabilitation and resettlement policy for the displaced. *Sociology of Displacement: Policies and Practice*. Ed. by: Sakarama Somayaji and Susmita Dasgupta. Rawat Publishers, Jaipur. 2013; 237-244.

PhDs:

Students on roll:03

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Coelho, J.P. Case study as a tool of qualitative field research. *Capacity Building Workshop for the Young Researchers*. Directorate of Higher Education, Goa and the ICSSR (WRC). 21 June 2013.
- Somayaji, G. Qualitative research: Meaning and methods. *Capacity Building Workshop for the Young Researchers*. Directorate of Higher Education, Goa and the ICSSR (WRC). 21 June 2013.

Conference presentations:

- **Coelho, J.P.** Trial by Fire: Transfiguration of Tibetan Buddhism in Exile. *Int. Conf. Diversity Margins and Dialogue: Local National and Transnational Cultures*. Dept of Sociology, Pune University. 2-4 Jan 2014.
- **Somayaji, G.** Asian Community and Co-existence in Multicultural Contexts: Multi-ethnicity, Conflicts and Refugees. *Int. Seminar on Asian Community and its Development in Globalisation*. One Asia Foundation and the Faculty of Cultural Sciences, UGM, Indonesia. 28 Jan 2014.

Other information:

- **Siqueira, A.A.** Member of the expert committee: Coordination Committee on the Living and Diverse Cultural Traditions of India. Ministry of Culture, Government of India.

Awards and honours:

Course work recognition: Vithai Zaraunkar (student of MA Sem 4) was sanctioned an amount of Rs. One Lakh under the Scheme: Safeguarding the Intangible Cultural Heritage and Diverse Cultural Traditions of India (Ministry of Culture, Government of India) for a project titled '*Old Songs, New Stories: Tales from the Vellip of Goa*' initiated during the course SOO-16: Culture Development and Tourism under the guidance of Prof. A. A. Siqueira.

Department of Philosophy

Faculty:

Full-time

U.A. Vinay Kumar, Ph.D., Professor and Head - Vedanta, Indian Philosophy

Sanjyot D. Pai Vernekar, Ph.D., Professor - Applied Ethics

Koshy Tharakan, Ph.D., Professor - Phenomenology and Philosophy of Social Science

Milan B. Desai, Ph.D., Associate Professor - Philosophy of science , Analytical Philosophy

Major thrust areas and achievements:

Indian Philosophy

Medical Bio-Ethics

Phenomenology, Philosophy of Science

PhDs:

Students on roll:09

Invited Lectures, Conference Presentations, etc.

Invited lectures

- VinayKumar, U.A. Philosophy of Education. *Academic Staff College, Goa University.* 10-16 Apr 2014.
- VinayKumar, U.A. Contemporary Indian Philosophy. *Study India Programme, 11-15 Nov 2013, Goa University.*

Conference presentations:

- Tharakan, K. Book of Tidings: Varthamanppusthakam: An 18th Century Travelogue on Lisboa and Roma from Malabar. *Int. Colloq. Long Distance Travel: Routes and Maps.* Universidade Católica Portuguesa, Lisbon. 15-16 May 2014.
- Tharakan, K. Travel as Pilgrimage: Personal Memories of Travel. *Dialogue on Travel.* Antigas instalações do Banco de Portugal, cidade da Horta, Ilha do Faial, Azores. 19 May 2014.
- VinayKumar, U.A. Self-identity in World Religions. *Nat. Sem. Identity and Otherness.* Dept. of Philosophy, Punjab University, Chandigarh, sponsored by Indian Council of Philosophical Research, New Delhi. 6-7 Jan 2013.
- VinayKumar, U.A. Metaphysics of Religions. *Nat. Sem. Contribution of Prof. M. Yamunacharya to Philosophy.* Dept. of Philosophy, Maharaja's College, Mysore. 23 Jan 2013.
- VinayKumar, U.A. On the Metaphysical Meaning of Kaaba. *Int. Sem.on Peaceful Co-existence with Focus on Religious Symbols in Islam and Indian Religions.* Al-Mustafa International University, Iran Jamia Hamdard, New Delhi. 3-4 Mar 2013.

Other information

Tharakan, K.: Guest Professor, IIT Gandhinagar from December 2013 for two years.

Department of History

Faculty:

Full-time

Pratima P. Kamat, Ph.D., Professor - Indo-Portuguese History and Maritime Studies, Gender Studies, History of Goa.

N. Shyam Bhat, Ph.D., Professor and Head - Modern Indian History, Indo – Portuguese History, and History of South Kanara.

Nagendra Rao, Ph.D., Associate Professor - Ancient India, Economic and Social History of Western Coastal India.

Parag D. Parobo, M.A., Assistant Professor - Subaltern, Nationalism, Culture, Portuguese Colonialism, Political Economy of Goa, Identity and Bahujan Samaj Polity.

Seema S. Risbud, Ph.D., Assistant Professor - Indo-Portuguese History, Decolonisation Movements, Gender Studies , Social Movements and Indian Culture and Heritage.

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Dr. Madhav Gadgil	Visiting Research Professor, D.D. Kosambi Chair in Interdisciplinary Studies	Environmental History of India: Historiography, Issues and Debates	9 Oct 2013

Major thrust areas and achievements:

The faculty members of the Department engaged themselves in research and publications in their respective areas of specialization. The thrust areas of the Department include Indo-Portuguese History, Maritime Studies, Indian History and History of Goa.

Seminars, conferences, workshops, etc., organized:

Programme	Dates	Funding
Parag D. Parobo Co-ordinated ONB-113, Indian Popular Visual Culture (One – Credit Course conducted by Prof. Jyotindra Jain, Visiting Research Professor, Mario Miranda Chair in Interdisciplinary Studies)	2-14 Dec 2013	Goa University
Subaltern Approach to the History of Goa: Themes and Issues (18 Local History Seminar, Goa)	6-7 Mar 2014	Goa University and Directorate of Archives and Archaeology, Govt. of Goa
N. Shyam Bhat Co-ordinated Refresher Course in Ancient Indian History (Conducted by Prof. Romila Thapar, Visiting Research Professor, D.D. Kosambi Chair in Interdisciplinary Studies)	22-26 Aug 2014	Goa University

Research publications:

Articles in journals (in SCI Journals)*

- Bhat, N.S.; Naik, B. The Canara land assessment case of 1875: A forgotten chapter in the revenue history of colonial India. *Indica*. 50(1&2); 2013; 350-367.
- Bhat, N.S.; Rao, N. History of Goa with special reference to its feudal features. *Indian Historical Review*. 40(2); 2013; 249-266.
- Kamat, P. Priestly protests against the Portuguese 'Pigmentocracy': The case of the first Goan Bishop, D. Matheus de Castro. *Indian Church History Review*. 47(2); 2013; 118-140.
- Kamat, P. Of settis and their deities: Historicizing the mercantile communities and the commercial culturescape of pre-colonial Goa. *Indica*. 50(1&2); 2013; 317-339.
- Kamat, P. The Goa-Ceylon religious connection: A review of the 'The Indian Cry' of Alvares Mar Julius, Archbishop of Ceylon, Goa and India. *Sabaragamuwa University Journal*. 12(1); 2013; 61-82.

Ph.Ds:

Students on roll:03

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Bhat, N.S. Ecology in Indian History. 86. *Orientation Course. ASC, Goa University. 27 Sep 2013.*
- Bhat, N.S. Communalism in Indian Historiography. 86. *Orientation Course. ASC, Goa University. 27 Sep 2013.*
- Kamat, Pratima. Goa's History and Culture. 6th *Know Goa Programme. NRI Commission, Govt of Goa. 25 Nov 2013.*

Conference Presentations:

- Kamat, P.P. At the Tide's End: Some Ethno-archaeological Observations about the Goan Port of Ganjem. 8. *Nat. Conf. Maritime Archaeology of the Indian Ocean Countries. Society for Marine Archaeology, CSIR-National Institute of Oceanography, Dona Paula, Goa. 1-2 Jul 2013.*
- Parobo, P.D. Political Economy of Tourism in Goa. *Nat. Conf. India's Political Economy in Transition: The Crisis of Governance, Democracy and Development. Dept. of Political Science, Goa University with the Indian Institute of Advance Study, Shimla and Indian Council for Social Science Research, New Delhi. 21-22 Dec 2013.*
- Parobo, P.D. Goan Historiography and the Histories of Resistance: the 'Voiceless' Subaltern. 18. *Local History Seminar (Goa) on 'Subaltern Approach to the History of Goa: Themes and Issues'. Dept. of History, Goa University and the Directorate of Archives and Archaeology, Government of Goa. 6-7 Mar 2014.*

Department of Political Science

Faculty:

Full-time

Rahul Tripathi, *Ph.D.*, Associate Professor – International Political Economy/South Asia.

Prakash S. Desai, *Ph.D.*, Assistant Professor - Political Theory, Democratic Politics in India, Modern Indian Political Thought.

Alaknanda Shringare, *Ph.D.*, Assistant Professor - Democratic Governance, Public Administration, Rural Development

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Prof. Raivo Vetik	Institute of Political Science and Governance, University of Tallin, Estonia	Russia and The Neighbourhood: Post Communist Transition and Russian Diaspora	14 Mar 2014
Prof. Ashutosh Varshney	India Initiative, Brown University	India's Improbable Democracy	8 Jan 2014
Prof. Ashutosh Kumar	Department of Political Science, Punjab University, Chandigarh	Conundrum of Indian Politics	3 Jan 2014
Ambassador Daniele Mancini	Embassy of Italy, New Delhi	European Union and Asia: Partnership for an Evolving Global World	18 Oct 2013
Dr. P.J. James	Formerly at St. Thomas College, Pala Kerala	Globalization and the Left	2 Aug 2013

Major Thrust Areas and Achievements:

The Department focused primarily in the areas relating to India's Democratic transition, International Political Economy and Electoral Politics as part of its teaching, research and advocacy activities. While the teaching focus on Political Theory, Public Administration and International Relations was maintained, attempt was made to deepen the research thrust on local issues as part of its research scholar's roundtable. The department hosted some very eminent names from the discipline of Political science in India and abroad who delivered special lectures. It also remained connected with the Political Science community at the local colleges by organizing the Annual Political Science Festival with the theme on 'Elections as the Festival of Indian Democracy'

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)
Shringare, A.	Ongoing	Popular Responsiveness to Developmental Programmes/ Projects in Goa	ICSSR, New Delhi	2.96

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
India's Political Economy in Transition: The Crisis of Governance, Democracy and Development	21-22 Dec 2013	Indian Institute of Advance Study , Shimla and Indian Council of Social Science Research, New Delhi
Political Science Research Scholars Round table	22 Feb 2013	Goa University

Research publications:

Articles in journals (* in SCI Journals)

- Desai, P.S. Engaging corruption in India: A critical examination of recent modes. *Social Science in Perspective*. 5(4); 2013; 347-357.
- Shringare, A. Corruption: The need for civil society engagement. *The Indian Journal of Political Science*. 74(3); 2013; 463-468.

Articles in books, conference proceedings:

- Desai, P.S. Protest and Dissent in India: Towards Anarchy or Democracy. *Globalization, Human Rights and Democracy*. Ed. by: Herald Monis. Milagres College, Udupi, Karnataka. 2014; 69-81.

PhDs:

Students on roll:06

Invited lectures, Conference presentations, etc.

Invited lectures

- Shringare, A. Administrative Corruption in India. *10th Refresher Course in Human Rights*. UGC-Academic Staff College, University of Mysore, Mysore. 23 Aug 2013.
- Shringare, A. Role of Social Media in 2014 Elections. *10th Refresher Course in Human Rights*. UGC-Academic Staff College, University of Mysore, Mysore. 23 Aug 2013.
- Tripathi, R. International Political Economy: Growth of an Interdiscipline. *Special Lecture*. Dept. of International Relations, Gujarat Central University. 15 Apr 2014.
- Tripathi, R. Positioning India in the Global Political Economy. *Special Lecture*. Dept. of Political Science, Hyderabad Central University. 16 Aug 2013.
- Tripathi, R. Research Methodology. *Naval High Command Course*. College of Naval Warfare, INS Mandovi, Goa. Oct 2013.

- Tripathi, R. Introduction to Human Rights. *Conf. on Human Rights*. Dhemppe College of Arts and Science and National Human Rights Commission, New Delhi. 30 Jan 2014.

Conference Presentations:

- Desai, P.S. Experiment of Resistance against Corruption in India: Observations and Responses on the recent method and approach. *Nat. Sem. Lokpal Bill: Pros and Cons*. A.R.G College, Davanagere, Karnataka. 13 Jul 2013.
- Desai, P.S. Role of Civil Society in making Parliament 'for the people': Recent Experiments in India. *Nat. Sem. Parliament at Sixty: Analysis of the working of Indian Parliament*. R.T.E Society's Arts, Science and Commerce College, Ranebennur, Karnataka. 20-21 Sep 2013.
- Desai, P.S. Role of people's movement in making Parliament 'for the people': Recent Experiments in India. *Nat. Conf. on India's Political Economy in Transition: The Crisis of Governance, Democracy and Development*. Dept. of Political Science, Goa University with Indian Institute of Advance Study, Shimla and Indian Council for Social Science Research, New Delhi. 21-22 Dec 2013.
- Desai, P.S. Protest and Dissent in India: Towards Anarchy or Democracy. *Int. Sem. Globalisation, Human Rights and Democracy*. Milagres College, Kallianpur, Karnataka. 6-7 Mar 2014.
- Desai, P.S. Elections and Electoral Reforms: Some Questions on their Effectiveness and Success. *Nat. Sem. Electoral Reforms in India*. Dept. of Studies in Political Science, Davangere, Karnataka. 26 Mar 2014.
- Shringare, A. Political Economy of Development: The Question of Inclusiveness in Post Reform India. *Nat. Conf. India's Political Economy in Transition: The Crisis of Governance, Democracy and Development*. Dept. of Political Science, Goa University with Indian Institute of Advance Study, Shimla and Indian Council for Social Science Research, New Delhi. 21-22 Dec 2013.
- Shringare, A. Women in Managerial Positions: A Study of Public Sector in Goa. *Nat. Sem. Women Leadership and Capacity Building in the Political and Economic Spheres- Prospects, Roadblocks and Strategies*. Carmel College of Arts, Science and commerce for Women, Nuvem. 28-29 Mar 2014.
- Tripathi, R. Contemporary International Political Economy and National Security. *Nat. Sem. National Security: Changing Contours of Concept and its Concerns*. V.P.M's Centre for International Studies, Thane. 15-16 Jul 2013.
- Tripathi, R. External Manifestations of India's Vulnerable Political Economy. *17. Ann. Conf. Indian Political Economy Association*. School of Economics, University of Hyderabad. 9-10 Nov 2013.
- Tripathi, R. Is there a Global South?: Perspective from South Asia. *Ann. Int. Studies Conf.* School of International Studies, JNU, New Delhi. 10-12 Dec 2013.

UGC Centre for Latin American Studies

Faculty:

Full-time

Aparajita Gangopadhyay, Ph.D., Associate Professor and Director-In-Charge - Latin American Studies, International Relations

Dattesh Parulekar, M.A., Assistant Professor - International Relations/Area Studies

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Ambassador G. Parthasarathy	Former Indian High Commissioner to Pakistan	Security and Foreign Policy Changes in a Volatile Neighbourhood	3 Aug 2013
Ambassador B.S. Prakash	Former Indian Ambassador to Brazil	Adding Content to Cordiality – the Transformation of India-Brazil Relations in the Last Decade	31 Aug 2013
Mr. Jonathan Miller	The Consul General of Israel at Mumbai	The Arab Spring and Israel's Security and Strategic Contours and Implications of Israel-India Partnership for the 21st Century	30 Oct 2013

Major Thrust Areas and Achievements:

The ostensible mandate of the Centre has been to promote academic research and teaching of various aspects of Latin American polity, economy, society and foreign policy to illuminate the dynamic and robust nature of this region.

Encourage specialised research projects on a multitude of themes and topics in order to inculcate and impart academic rigour and research inclinations amongst scholars.

An accompanying objective is also to compare and contrast the impulses and processes transpiring in the LAC region and India. Towards achieving this goal, the Centre undertakes the following:

The Centre has specific academic research programmes in the form of M.Phil/Ph.D in Latin American and Caribbean Studies with the view to promoting scholarship in the area.

The MA in International Studies is a two-year (4 semesters) multi-disciplinary course devised to expose students to the rudiments of international relations.

An USP of the course happens to be the options offered to students to undertake rigorous research training vide engaging in dissertation work on a topic of their interest enabling them to acquire qualities quintessential to major full-time research.

Incremental infrastructure: 2 computers

Research publications:

Articles in books, conference proceedings:

- Parulekar, D. The Political and Economic Profile of Latin American and Caribbean (LAC) Region. *Sapru House Research Paper Series*, Indian Council of World Affairs, New Delhi, ISBN: 978-93-83445-01-1. 2013; 65pp.

PhDs:

Students on roll:05

Placement details: 01

Invited Lectures, Conference Presentations, etc.

Conference presentations:

- Parulekar, D. From MDGs to SDGs: The Role of Peace, Security and Conflict Prevention in Shaping the Post 2015 Development Agenda. *Nat. Seminar on the Post 2015 Development Agenda: Retrospect and Prospects*. Indian Federation of United Nations Association (IFUNA) and the United Nations Information Centre (UNIC), New Delhi. 22-25 May 2014.
- Parulekar, D. Demystifying Acculturation vis-a-vis Nationalism: A Conceptual Lens at Praxis. *Nat. Seminar on Contesting Territoriality in a Globalized World: A Contemporary Debate on the Nation State*. SIES College of Arts, Science and Commerce and Rambhau Mhalgi Prabodhini (RMP), Mumbai. 30-31 Jan 2014.
- Parulekar, D. Food Security as an Element of National Security in Developing Societies: A Case Study Perspective of Brazil's FOME ZERO Strategy. *Nat. Seminar on India's Foreign Policy Concerns*. VPM's Centre for International Studies (CIS), Mulund, Mumbai. 15-16 Jul 2013.
- Parulekar, D. Recent Developments in Political Science. *Nat. Seminar on The State, Democracy and Governance: Landscaping National and International Politics*. Association of Political Scientists, Kottayam, Kerala. 6 Feb 2014.
- Parulekar, D. India-Iran-Israel: The Changing Dynamics. *Forum for Integrated National Security (FINS)*, Mumbai. 6 Jan 2014.

Centre for Women's Studies

Faculty:

Full-time

Shaila Desouza, Ph.D., Assistant Professor and In Charge of the Centre - Gender, Development and Empowerment

Major Thrust Areas and Achievements:

The teaching programmes in Women's Studies at Goa University were developed during the year. The MA syllabus comprising of 10 Core courses and 10 Optional courses (credit courses) has been drawn up. The Ph.D. programme in Women's Studies was initiated by conducting courses on Research Methodology and Advanced Theory. The centre has been awarded a grant of Rs. 33.27 lakhs p.a. from the UGC under its XIIth Plan Scheme for 3 teaching positions (Prof(Director)/Reader, Lecturer and Research Associate) and 4 non-teaching positions (Research Assistant, Professional Assistant, Data Entry Operator and Attendant).

Projects

Project Investigator	Status	Title	Funding Agency	Grant (Rs in Lakhs)
DeSouza, S.	Ongoing	State Resource Centre for Women	Department of Women and Child Welfare, Government of Goa	39.00
DeSouza, S.	Ongoing	Sanghmitra: Convergence Project on Adolescent Health and Rights	National Mission for the Empowerment of Women, Govt. of India	25.00

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
Southern Regional Seminar on Engendering Tourism: Work, Opportunities and Dilemmas in Bangalore	14 Jun 2013	Indian Association for Women's Studies
Equality, Pluralism and the State: Perspectives from the Women's Movement – 14. Nat. Conf. Indian Association for Women's Studies (IAWS)	3-7 Feb 2014	Indian Association for Women's Studies (IAWS)
Womagination 2014: A Intercollegiate Festival of Competitions to commemorate International Women's Day	8 Mar 2014	UGC
Sensitization Workshop for Goa University students as part of the Committee for the Prevention of Sexual Harassment of Women at the Workplace	4 Sep 2013	Goa University

PhDs:

Students on roll:04

Awards and honours:

DeSouza, S. has been nominated as Member of the Executive Committee of the Indian Association of Women's Studies (IAWS) with the special responsibility as Southern Regional Coordinator of the IAWS as well as the Secretary of the IAWS Archives.

DeSouza, S. Trustee of ACDIL School, Goa

Invited lectures, Conference presentations, etc.*Invited lectures*

- DeSouza, S. Keynote Address on Tourism and Gender. *Engendering Tourism: Work, Opportunities and Dilemmas. Southern Regional Seminar for the Indian Association for Women's Studies*, together with Equations, Bangalore. 14 Jun 2013.
- DeSouza, S. (Key Speaker and Panelist). *Workshop Gender and Culture in Goan Society*. Fundacao Oriente, International Centre Goa. 8 Oct 2013.
- DeSouza, S. (Key speaker). Gendered Analysis of Data on Amenities available in Towns of Goa State from Census 2011. *Dissemination Workshop*. Directorate of Census Operations, Goa. 4 Dec 2013.

Conference Presentations:

- DeSouza, S. Exploitation, Struggles & Lessons: Politics, Land & Women in Goa, India. *Int. Symp. Re-claiming's, Empowering's, Inspirings*. Centre for Gender Research, Uppsala University, Uppsala, Sweden. 14-19 Oct 2013.
- DeSouza, S. A Gendered Perspective on Health: A Focus on Issues in Goa. *UGC Nat. Sem. Socio-Economic Inequalities and the Health Sector*. Rosary College of Commerce and Arts Navelim, Goa. 30 Aug 2013.
- DeSouza, S. Understanding Goa: An analysis of data on household amenities- Goa Census 2011. *Data Dissemination Workshop*. Directorate of Census Operations, Panaji, Goa. 25 Sep 2013.

Department of Library and Information Science

Faculty:

Dr. Gopakumar V., Co-ordinator, University Librarian, MLISc., PhD

Dr. Vikrant P. Malwankar, Library Assistant, MLISc., Ph.D

Visiting Faculty

M. P. Tapaswi, MLISc., PhD

Smt. Swati M. Mhamal, M.Sc, M.L.I.Sc.,

Publications in Books/seminar proceedings

- Gopakumar V, "Library Website as media for managing E-Resources: The Goa University Library Experience" was published in Twigging facets of E-Resources in Libraries, a compilation of selected papers of 2 day National Seminar on Emerging Trends in E-Resources management and Services in College Libraries held during September 27 to-28 2013 at Teresian College, Mysore. Edited by N. S. Harinarayana, Sunil M V, Rukminamma
- Gopakumar, V.; Anuradha V "Adapting to the revolution: Re-inventing the library housekeeping activities and services" in the conference Proceedings of the two day seminar "The digital shift: Making libraries relevant for education and research" held at Karnataka State Women's University, Bijapur on 6-7 of March, 2014. Edited by P. G. Tadsad
- Gopakumar, V, "Collection Development and Management of e-resources: An academic library experience" published in the conference proceedings, Libraries and Librarianship in Transition: Challenges and Opportunities, LIBTRANS 2014, conducted by Besant Evening College, Mangalore from 22-23 of August 2014. edited by Vasappa Gowda

2.3: Faculty of Natural Sciences

Departments and Degrees:

Department of Chemistry	(M. Sc., M.Phil.,Ph. D.,)
Department of Mathematics	(M. Sc., M.Phil.,Ph. D.)
Department of Computer Sc & Tech	(M. C. A., M.Phil.,Ph. D.)
Department of Physics	(M. Sc., M.Phil.,Ph. D.)
Department of Electronics	(M. Sc., M.Phil.,Ph. D.)
Department of Earth Science	(M. Sc.,M.Phil., Ph. D.)

FACULTY BOARD

Dean, Faculty of Natural Sciences	Chairman (Ex-Officio)
Head, Department of Chemistry	Member (Ex-Officio)
Head, Department of Electronics	Member (Ex-Officio)
Head, Department of Earth Science	Member (Ex-Officio)
Head, Department of Mathematics	Member (Ex-Officio)
Head, Department of Physics	Member (Ex-Officio)
Head, Department of Computer Science & Tech.	Member (Ex-Officio)
Prof. Julio B. Fernandes	Member (Ex-Officio)
Prof. V. P. Kamat	Member (Ex-Officio) (Presently Registrar)
Prof. B. R. Srinivasan	Member (Ex-Officio)
Prof. A. G. Chachadi	Member (Ex-Officio)
Prof. J. A. E. Desa	Member (Ex-Officio)
Prof. R. B. Tangsali	Member (Ex-Officio)
Prof. V. V. Kamat	Member (Ex-Officio)
Prof. R. V. Pai	Member (Ex-Officio)
Prof. V. S. Nadkarni	Member (Ex-Officio)
Prof. K. R. S. Priolkar	Member (Ex-Officio)
Dr. Rajendra N. Shirsat	Member
Dr. Jivan S. Parab	Member
Dr. A. N. Mohapatra	Member

Department of Chemistry

Faculty

Full-time

J.B. Fernandes, Ph.D., Professor - Physical Chemistry

A.V. Salker, Ph.D., Professor - Catalysis And Solid State Chemistry

V.P. Kamat, Ph.D., Professor – Organic Chemistry (on Lien as Registrar)

S.G. Tilve, Ph.D., Professor and Head - Organic Chemistry

B.R. Srinivasan, Ph.D., Professor - Inorganic Chemistry

V.S. Nadkarni, Ph.D., Professor - Organic Chemistry

R.N. Shirsat, Ph.D., Associate Professor - Theoretical And Computational Chemistry

V.M.S. Verenkar, Ph.D., Associate Professor - Inorganic Chemistry: Solid State Chemistry

S. N. Dhuri, Ph.D., Assistant Professor - Inorganic Chemistry (on study leave since Dec. 2013)

S.V. Girkar, M.Sc. (NET & SET qualified), Assistant Professor - Organic Chemistry

Visiting scholars

Name of the Scholar	Institution	Title of Lecture	Date
Prof. D. Basavaiah (F.A.Sc)	School of Chemistry, University of Hyderabad	Baylis Hillmann Reactions in organic synthesis	22 Jul 2013
Prof. Samar K Das (F.A.Sc)	School of Chemistry, University of Hyderabad	Inorganic Supramolecular Chemistry: A Simple Mono-nuclear Copper Coordination Complex to Tri-nuclear Iron Cluster Through Multi-nuclear Polyoxometalates	21 Oct 2013
Prof. T. Pradeep (F.A. Sc)	Department of Chemistry, IIT Madras	Gold nanopartilces in drinking water purification	29 Oct 2013
Ms Prajakta Parab	RWTH Aachen University, Germany	Reaction Kinetics of combustion of fuels	13 Dec 2013
Prof. Aharon Gedanken (Emeritus)	Department of Chemistry, Bar-Ilan University, Ramat-Gan, Israel	Sonochemical Synthesis & Applications of Nanomaterials	24 Feb 2014
Prof. S.R. Dharwadkar	Retd. Emeritus BARC Scientist & Institute of Science, Mumbai	Role of Microwave Radiations in Materials Synthesis	28 Feb 2014

Major Thrust Areas:

Solid State Chemistry & Electrochemistry; Synthetic Organic Chemistry; Polymer Chemistry; Catalysis; Crystal Growth; Theoretical Chemistry.

Incremental Infrastructure:

The Department of Chemistry has fully moved over into a spacious new state-of-the-art building (Block E) sanctioned by the Government of Goa, during the academic year 2013-14. During the first semester of 2013-14 the classes for the M.Sc. Chemistry (Part I) were conducted in the new building and the classes for Part II were held in the old premises. Since Jan 2014 all classes (lecture and practical) are conducted in Block E.

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. in Lakhs)
Fernandes, J.B. (<i>coordinator</i>)	Completed	Nanomission- Interdisciplinary group project	DST	261.00
Nadkarni, V.S.	Ongoing	Development of Novel Polymeric Detectors for Selective Dosimetric Analysis	AERB, Mumbai	25.19
Salker, A.V.	Ongoing	Catalytic redox reactions of hydrocarbons, carbon monoxide and nitric oxide over nano based catalysts	UGC- New Delhi sponsored project	7.39
Salker, A.V.	Ongoing	Selective and controlled catalytic oxidation of chemically sensitive organic substrate over metal organic and mixed metal oxides	CSIR New Delhi	15.00
Verenkar, V.M.S.	Completed	Synthesis, characterization and study of solid state properties of mixed metal oxides	UGC Research Project	1.1

Seminars/ Conferences, etc., organized

Programme	Dates	Major Sponsors
Second Annual Home-Coming cum get-together (after 25 years) of students of M.Sc. Chemistry batches of 1988-90 & 1989-91	26 Jan 2014	Chemistry Department Faculty & Alumini Association (CDFAA), Goa University
One Day Seminar on 'Applications of Nanomaterials'	24 Feb 2014	Goa University

The 8 th Annual Inter-Collegiate one day T.Y. B.Sc. (Chemistry) Symposium on 'Fascinating World of Chemical Sciences'	15 Mar 2014	Goa University & CDFAA
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Publications

Journal articles (= SCI publications)*

- *Bhat, C.; Tilve, S.G. A concise diastereoselective approach to (+)-dexoxadrol, (-)-epidexoxadrol, (-)-conhydrine and (+)-lentiginosine from (-)-pipecolinic acid. *Tetrahedron*. 69(51); 2013; 10876-10883
- *Bhat, C.; Tilve, S.G. Henry-Nef reaction: a practical and versatile chiral pool route to 2-substituted pyrrolidine and piperidine alkaloids. *Tetrahedron*. 69(30); 2013; 6129-6143
- *Bhat, C.; Tilve, S.G. Tandem approaches for the synthesis of functionalized pyrrolidones: Efficient routes toward allokainic acid and kainic acid. *Tetrahedron Letters*. 54(3); 2013; 245-248
- *Gawas, U.B.; Verenkar, V.M.S. Synthesis, thermal and infrared spectroscopic studies of hydrazinated mixed metal fumarates. *Journal of Thermal Analysis and Calorimetry*. 115(1); 2014; 375-381
- *Kadam, H.K.; Tilve, S.G. Synthesis of 6H-Isoindolo[2,1-a]indol-6-ones through Wittig reaction and tandem reductive cyclization-lactamization. *European Journal of Organic Chemistry*. 2013(20); 2013; 4280-4284
- *Kunkalekar, R.K.; Naik, M.M.; Dubey, S.K.; Salker, A.V. Antibacterial activity of silver-doped manganese dioxide nanoparticles on multidrug-resistant bacteria. *Journal of Chemical Technology and Biotechnology*. 88(5); 2013; 873-877
- *Kunkalekar, R.K.; Naik, M.M.; Dubey, S.K.; Salker, A.V. Antibacterial activity of silver-doped manganese dioxide nanoparticles on multidrug-resistant bacteria. *Journal of Chemical Technology and Biotechnology*. 88(5); 2013; 873-877
- *Kunkalekar, R.K.; Prabhu, M.S.; Naik, M.M.; Salker, A.V. Silver-doped manganese dioxide and trioxide nanoparticles inhibit both Gram positive and Gram negative pathogenic bacteria. *Colloids and Surfaces B-Biointerfaces*. 113; 2014; 429-434
- Kunkalekar, R.K.; Salker, A.V. Preparation and characterization of Ag doped Mn₂O₃ nanomaterial for CO oxidation. *Current Catalysis*. 2(3); 2013; 213-218
- *Majik, M. S.; Naik, D.; Bhat, C.; Tilve, S.G.; Tilvi, S.; D'Souza, L. Synthesis of (R)-norbgugaine and its potential as quorum sensing inhibitor against *Pseudomonas aeruginosa*. *Bioorganic & Medicinal Chemistry Letters*. 23(8); 2013; 2353-2356
- *Naik, S.R.; Salker, A.V.; Yusuf, S.M.; Meena, S.S. Influence of Co²⁺ distribution and spin-orbit coupling on the resultant magnetic properties of spinel cobalt ferrite nanocrystals. *Journal of Alloys and Compounds*. 566; 2013; 54-61
- Natarajan, S.; Srinivasan, B.R.; Moovendaran, K. Reinvestigation of the crystal growth of 'L-proline succinate' and 'L-threonine zinc acetate' showing use of Infrared spectra for product identification. *Journal of Crystallization Process & Technology*. 4; 2014; 121-125
- *Parvatkar, P.T.; Torney, P.S.; Tilve, S.G. Recent developments of Wittig reaction in organic synthesis through tandem or sequential processes. *Current Organic Synthesis*. 10(2); 2013; 288-317

- *Pavaskar, P.A.; Patil, S.S.; Furtado, I.; Salker, A.V. Synthesis and evaluation of antibacterial activity of water-soluble copper, nickel and zinc tetra (n-carboxylacrylic) aminophthalocyanines. *Medicinal Chemistry Research*. 22(9); 2013; 4300-4307
- *Srinivasan, B.R. Can zinc(II) ions be doped into the crystal structure of L-proline cadmium chloride monohydrate?. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*. 116; 2013; 635-638
- *Srinivasan, B.R. On the existence of 'L-alanine cadmium bromide'. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*. 116; 2013; 639-641
- *Srinivasan, B.R. Does an 'L-arginine doped orthophosphoric acid' crystal exist?. *Journal of Luminescence*. 148; 2014; 370-372
- *Srinivasan, B.R.; Dhavskar, K.T. Comments on the paper: Comparative study of mechanical, dielectric and electrical properties of solution grown semi-organic NLO crystal glycine with additives-ammonium oxalate, potassium and barium nitrate. *Indian Journal of Pure & Applied Physics*. 52(1); 2014; 60-63
- *Srinivasan, B.R.; Dhuri, S.N.; Nadkarni, V.S. Comment on the paper 'Synthesis, growth, structural, spectral, thermal, chemical etching, linear and nonlinear optical and mechanical studies of an organic single crystal 4-Chloro 4-Nitrostilbene (CONS): A potential NLO material" by PM Dinakaran, S. Kalainathan [Spectrochim. Acta A 111 (2013) 123-130]'. *Spectrochimica Acta. Part A-Molecular and Biomolecular Spectroscopy*. 117; 2014; 817-819
- *Srinivasan, B.R.; Jyai, R.N. Reinvestigation of growth of 'L-valine zinc sulphate' crystal. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*. 120; 2014; 621-624
- *Srinivasan, B.R.; Raghavaiah, P.; Nadkarni, V.S. Reinvestigation of growth of urea thiosemicarbazone monohydrate crystal. *Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy*. 112; 2013; 84-89
- *Srinivasan, B.R.; Tylczynski, Z.; Nadkarni, V.S. Comment on 'synthesis, growth, structural, spectral, linear and nonlinear optical and mechanical studies of a novel organic NLO single crystal 4-bromo 4-nitrostilbene (BONS) for nonlinear optical applications'. *Optical Materials*. 35(8); 2013; 1616-1618
- *Vernekar, A.A.; Patil, S.; Bhat, C.; Tilve, S.G. Magnetically recoverable catalytic Co-Co₂B nanocomposites for the chemoselective reduction of aromatic nitro compounds. *RSC Advances*. 3(32); 2013; 13243-13250
- *Volvoikar, P.S.; Parvatkar, P.T.; Tilve, S.G. Tandem reductive cyclization-dehydration approach for the synthesis of cryptolepine hydroiodide and its analogues. *European Journal of Organic Chemistry*. 2013(11); 2013; 2172-2178.

Conference Proceedings articles

- Gawas, S.G.; Vernekar, V.M.S. The thermal and spectral investigations of hydrazinated mixed metal ferrous fumarate precursors and their thermally decomposed products. *Proc. 19. Symp. and Workshop on Thermal Analysis (THERMANS-2013)*. DAE-BRNS; Indian Thermal Analysis Society, Bhabha Atomic Research Centre, Trombay, Mumbai; 2013; 504-509

- Gokakakar, S.D.; Salker, A.V. Thermal studies of some sulphonated metalloporphyrins with di- and trivalent metals. *Proc. 19. Symp. and Workshop on Thermal Analysis (THERMANS-2013). DAE-BRNS; Indian Thermal Analysis Society, Bhabha Atomic Research Centre, Trombay, Mumbai.; 2013; 272-277*
- Gonsalves, L.R.; Verenkar, V.M.S. Nanosize nickel and zinc doped cobalt ferrite for potential gas sensing applications. *Proc. 19. Symp. and Workshop on Thermal Analysis (THERMANS-2013). DAE-BRNS; Indian Thermal Analysis Society, Bhabha Atomic Research Centre, Trombay, Mumbai.; 2013; 522-528*
- Naik, M.Z.; Salker, A.V. Thermal and electrical studies of doped Indium oxide nanoparticles. *Proc. 19. Symp. and Workshop on Thermal Analysis (THERMANS-2013). DAE-BRNS; Indian Thermal Analysis Society, Bhabha Atomic Research Centre, Trombay, Mumbai.; 2013; 510-515*

Patents

Salker, A.V. A process for preparing the catalyst for conversion of CO to CO₂ at room temperature. *Indian Patent No. 259609. Date of Grant: 20 Mar 2014.*

PhDs

Degrees awarded:05

Students on roll:27

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Fernandes, J.B. Role of some metal oxides/zeolite catalysts in Energy Research. UQ-India, Clean Energy Workshop. University of Queensland, Brisbane, Australia. 7-8 Nov 2013.
- Srinivasan, B.R. Chemistry: From ancient ages to modern times (A lecture demonstration). Vidya Prabhodini School, Porvorim, Goa. 19 Nov 2013.
- Srinivasan, B.R. Chemistry: From ancient ages to modern times. DST-Inspire. Dept. of Biotechnology, Goa Univ. 20 Feb 2014.

Conference presentations

- Chari, V.; Fernandes, J.B. Selective synthesis of nanosize MnO₂ phases and cyclic voltammetric investigation to understand the cathodic reaction mechanism. *Indo-UK Int. workshop on Advanced Materials. BITS, Pilani, Goa campus. 17-19 May 2014*
- Fernandes, J.B.; Nagvenkar, A. Synthesis of ZnO montmorillonite Clay nanocomposites for adsorption and catalytic Applications. *Indo-UK Int. workshop on Advanced Materials. BITS, Pilani, Goa campus. 17-19 May 2014*
- Misbah Khan, M.; Shete, M.; Fernandes, J.B. Investigation of a new nanocomposite photocatalyst: ZnO-Zeolite-CdS. *Indo-UK Int. workshop on Advanced Materials. BITS, Pilani, Goa campus. 17-19 May 2014*
- Nadkarni, V.S. Effects of ion beam irradiation on etching properties of indigenously prepared solid state nuclear track detectors. *Nat. Workshop on Ion Beam Induced Growth and Engineering of Materials. Dept. of Physics, Kurukshetra University, Kurukshetra*

- Nadkarni, V.S. Poly(triallyl phosphate) and its copolymers for nuclear track detection. *National Symp. on Solid State Nuclear Track Detectors and their Applications (SSNTD-18)*. Agarwal College, Faridabad, India. 18-20 Oct 2013
- Naik, A.; Nagvenkar, A.; Shete, M.; Fernandes, J.B. Structure-activity relationship in MnI-VO₂ phases and graphene oxide/MnO_x nanocomposites for applications in batteries and supercapacitors. *Indo-UK Int. workshop on Advanced Materials*. BITS, Pilani, Goa campus. 17-19 May 2014
- Narulkar, D.D.; Dhuri, S.N. Trans-Ruthenium(VI)-Dioxo complex in the hydride transfer and H-atom abstraction reactions. *CRSI (Chemical Research Society of India) Mid-year symposium 2013*. Department of Chemistry, National Institute of Technology Karnataka, Mangalore, Karnataka. 12-13 Jul 2013
- Shete, M.D.; Fernandes, J.B. Investigation of pure and carbon supported zinc oxides for photodegradation of water pollutants. *Indo-UK Int. workshop on Advanced Materials*. BITS, Pilani, Goa campus. 17-19 May 2014
- Verenkar, V.M.S. Synthesis, characterisation and frequency dependence dielectric behaviour of Ni doped Mg Ferrite. *UGC-SAP-DRS-II sponsored Nat. Symp. Current Trends in Chemical and Nano Science (CTCNS-2014)*. Dept. of Chemistry, Shivaji University, Kolhapur. 17-18 Jan 2014

Department of Mathematics

Faculty:

Full-time

Jayanthan, A.J., Ph.D., Associate Professor and Head - Topology

Y.S. Valaulikar, Ph.D., Associate Professor - Differential difference equations

A.N. Mohapatra, Ph.D., Associate Professor - Operator Theory

Manvendra Tamba, Ph.D., Assistant Professor - Lie algebra, Number Theory

M. Kunhanandan, Ph.D., Assistant Professor - Inverse Problems, Combinatorics

Seminars, Conferences, Corkshops, etc., organized:

Programme	Dates	Funding
Mathematics Training and Talent Search Programme	12 May - 7 Jun 2014	NBHM (DAE)

Research publications:

Articles in journals (in SCI Journals)*

*George, S.; Pareth, S.; Kunhanandan, M. Newton Lavrentiev regularization for ill-posed operator equations in Hilbert scales. *Applied Mathematics and Computation*. 219(24); 2013; 11191-11197.

PhDs:

Students on roll:05

Invited lectures, Conference Presentations, etc.

Invited Lectures

- Jayanthan, A.J. Topology. *Annual Instructional School of Mathematics*. National Center of Theoretical Sciences. TIFR at Kerala School of Mathematics. 2-7 Dec 2013.
- Jayanthan, A.J. Foundations of Mathematics. *Mathematics Training and Talent Search Programme*. Goa University. 12-25 May 2014.
- Kunhanandan, M. Ergodic Rotations of the Circle Group. *Nat. Seminar on Algebra and Analysis*. PG Dept. of PRNSS College, Mattanur, Kerala. 6 Sep 2013.
- Kunhanandan, M. Importance of Mathematics. *Lecture organized for Higher Secondary Students*. Don Bosco School, Panaji. 23 Nov 2013.
- Mohapatra, A.N. Real Analysis. *Mathematics Training and Talent Search Programme*. Goa University. 26 May -6 Jun 2014.

Conference presentations:

Jayanthan, A.J. Multiply connected sum of Torus knots. *Adv. School and Discussion meeting on knot theory and its applications*. Nat. Center for Theoretical Sciences, TIFR; IISER, Mohali. 10-20 Dec 2013

Department of Computer Science & Technology

Faculty:

Full-time

- **P.R. Rao, Ph.D. Professor and Head (till July 2013)** - Theoretical Computer Science, Data Mining
- **Venkatesh V. Kamat, M.Phil, Ph.D, Professor and Head** - Computer Graphics, CAD, Education Technology
- **Jyoti D. Pawar, MCA, Ph.D.**, Associate Professor - Data Mining, Data Structures, Natural Language Processing (NLP)
- **Yma Pinto, MCA**, Associate Professor - Data Base Management Systems (DBMS), Computer Science Education (CSE)
- **RamraoWagh, MCA.**, Associate Professor - Software Engineering, Geographical Information Systems (GIS), Educational Technology
- **S. Baskar, M.Sc.**, Associate Professor - Compiler Construction, Machine learning
- **Ramdas Karmali, MCA.**, Assistant Professor - Data Communication, Web Technology, Natural Language Processing (NLP)

Visiting lecturers

- Venkatesh Prabhu
- Samir Patil
- Cidalia Bodade
- Prajyot Mainkar
- S. Sivaraman
- Rajesh Prabhu Gaonkar
- Vinod Joshua
- Govind Kelkar
- Shailaja Sardessa

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Prof. Ashwin Srinivasan	Professor and Dean at the South Asian University (SAU), New Delhi	Inductive Logic Programming and its Applications	12 Jun 2013
Dr. Sanjay Kamat	Senior Director, Bell Labs Advisory Services, USA	Where is education headed and what does it mean for students, teachers, schools, universities and parents ?	18 Jul 2013

Dr. Venu Madhav Govindu	Department of Electrical Engineering, Indian Institute of Science, Bengaluru	Geometric Estimation in Computer Vision	25 Jul 2013
Dr. Malolan Chetlur	IBM, IRL, Bangalore	Using EduPaL for Educational Analytics	30 Sep 2013
Shamin Shirodkar	Supply Planning Decision Technologies (SPDT) Organization at Intel	Usage of math models in solving complex supply chain problems	1 Nov 2013
Prof. Ashwin Srinivasan	Department of Computer Science & Engineering, IIT-Delhi	Research in Computer Science and Engineering	7 Nov 2013
Prof. Ashok Kolaskar	Ex-Vice Chancellor of Pune University	Next Generation Internet and its impact on Higher Education and Research	15 Nov 2013
Dr. Jay R. Bhatnagar	NIT, Goa	A view on the Computational Models in Information Theory and Machine Learning	21 Nov 2013
Prof. Devdatt Dubhashi	Department of Computer Science and Engineering, Chalmers University of Technology, Sweden	Machine Learning and Computational Biology	26 Nov 2013
Dr. Anand Bariya	Sr. Director, NetLogic Microsystems Bengaluru	Job v/s Career and Industry Expectations	10 Apr 2014

Major Thrust Areas and Achievements:

Natural Language Processing, Computer Graphics, Educational Technology, Data Mining, Software Engineering.

Following projects under DeitY, New Delhi Govt. of India are under execution -

Indian Languages Corpora Initiative - Konkani Annotated Corpora Creation

IndradhanushWordNet Project – Konkani WordNet development

Shallow Parser Tools for Konkani

Incremental Infrastructure:

2 laboratories with 30 computers to handle increased intake to MCA program

1 laboratory with capacity of 12 computers for new M.Tech program

2 classrooms for MCA with capacity of 60

1 classroom for M.Tech with capacity of 15

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)
Karmali, R. (co-PI – Pawar, J.D.)	Ongoing	Shallow Parser Tools for Indian Languages (SPT-IL) for Konkani Language	Department of Electronics and Information Technology(DeitY), New Delhi	36.00
Pawar, J.D(co-PI's – Karmali, R.N, Wagh, R.S)	Ongoing	Indian Language Corpora Initiative (ILCI) - Phase 2 for Konkani	Department of Electronics and Information Technology(DeitY), New Delhi	45.43
Pawar, J.D(Co-PI – Karmali, R.N)	Ongoing	IndradhanushWordNet Project: Development of an Integrated WordNet for seven Indian Languages - Bengali, Gujarati, Kashmiri, Konkani, Odia, Punjabi and Urdu	Department of Electronics and Information Technology(DeitY), New Delhi	299.52
Kamat, V.V.	Ongoing	CAD-ELearn Project	Govt. of Goa	10.00

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
Orientation workshop for teachers on Research in Software Engineering Education	15 Jun 2013	ACM Goa Chapter
Pre-ICSE Workshop on Software Engineering Education & Training	20 Sep 2013	ACM Goa Chapter
3D Reconstruction using Microsoft Kinect by research team from IISc Bangalore	11 & 12 Dec 2013	University funds
NoSQL Technologies by team of professionals from software industry, <i>ThoughtWorks</i>	14 Dec 2013	University funds

Research publications:

Articles in journals (in SCI Journals)*

- Paul, D.V.; Pawar, J.D. A grouping strategy based partition algorithm for clustering questions in a question bank. *Journal of Convergence Information Technology*. 9(2); 2014; 70-78.

Articles in books, conference proceedings:

- Paul, D.V.; Pawar, J.D. Pareto-optimal solutions for question paper template generation. *Advances in Computing, Communications and Informatics (ICACCI), 2013 Int. Conf.*; 2013; 747-751.

- Paul, D.V.; Pawar, J.D. Dynamic question paper template generation using bi-proportional scaling method. *Technology for Education (T4E), 2013*. IEEE Fifth Int. Conf.; 2013; 80-83.
- Sahasrabudhe, S.; Iyer, S.; Kamat, V.; Kadam, K. Integration of Blender 3D in Basic Computer Graphics Course. *21 Int. Conf. Computers in Education, Proc. ICCE 2013, 18-22 Nov 2013, Indonesia.*; 2013; 483-486.
- Paul, D.V.; Pawar, J.D. A syllabus-fairness measure for evaluating open-ended questions. *Advances in Signal Processing and Intelligent Recognition Systems*. 264; 2014; 57-71.
- Paul, D.V.; Pawar, J.D. A multi-objective differential evolution approach for question selection problem. *5. Int. Conf. Applications of Digital Information and Web Technologies (ICADIWT 2014) (V Edition*. IEEE, CHRIST University, Chennai, 17-19 Feb 2014. DOI: 10.1109/ICADIWT.2014.6814673.; 2014; 219-225.
- Jadhav, S.; Joshi, M.; Pawar, J.D. Art to SMart: Automation for BharataNatyam Choreography. *19. Int. Conf. on Management of Data (COMAD)*. 19–21 Dec 2013. Ahmedabad, India; 2013; 131-134.
- Nagvenkar, A.S.; Prabhugaonkar, N.R.; Prabhu, V.P.; Karmali, R.N.; Pawar, J.D. Concept Space Synset Manager Tool. *7. Int. Global WordNet Conf.* 25-29 Jan 2014. Tartu, Estonia; 2014; 86-94.
- Naik, S.B.; Pawar, J.D. An Efficient Incremental Algorithm to Mine Closed Frequent Itemsets over Data Streams. *19. Int. Conf. on Management of Data (COMAD)*. 19–21 Dec 2013. Ahmedabad, India. 2013; 117-120.
- Paul, D.V.; Naik, S.B.; Pawar, J.D. An Evolutionary Approach for the Multi-Constraint Question Selection Problem. *Nat. Conf. on e-Learning and e-Learning Technologies. ELELTECH INDIA-2013*. 28-29 Jun 2013. JNT University, Hyderabad Campus, India. 2013; 47-53
- Paul, D.V.; Pawar, J.D. A Partition-based Grouping Algorithm for Clustering Questions in a Question Bank. *IEEE Int. Conf. on Computing, Cybernetics and Intelligent Information Systems, CCIIS-2013*. 21-23 Nov 2013. VIT University, Vellore, Tamilnadu, India. Proceedings not published.
- Paul, D.V.; Pawar, J.D. Pareto-optimal Solutions for Question paper Template Generation. *IEEE Int. Conf. on Advances in Computing, Communication and Informatics. ICACCI 2013*. 22-25 Aug 2013. SJCE, Mysore, India; 2013; 747-750.
- Prabhugaonkar, N.R.; Pawar, J.D. Use of Sense Marking for Improving WordNet Coverage. *7. Int. Global WordNet Conf.* 25–29 Jan 2014. Tartu, Estonia; 2014; 95-99.

PhDs:

Students on roll: 10

Placement details: 24

Awards and honours:

Ramrao Wagh

- Vice chairman, Computer society of India
- Member, Official Language implementation Board of Goa govt
- Member, Goa state multi-lingual website draft policy committee

Invited Lectures, Conference Presentations, etc.

Conference Presentations:

- Paul, D.V.; Pawar, J.D. A partition-based grouping algorithm for clustering questions in a question bank. *IEEE Int. Conf. on Computing, Cybernetics and Intelligent Information Systems, CCIIS-2013*. VIT University, Vellore, Tamilnadu, India. 21-23 Nov 2013.

Department of Physics

Faculty:

Full-time

R.B. Tangsali, Ph.D., Professor and Head - Condensed matter Physics (Theoretical Physics, Nano materials)

J. A. E. Desa, Ph.D. Professor Structures of Disordered Materials

Ramesh V. Pai, Ph.D., Professor - Condensed Matter Physics

Kaustubh Priolkar, Ph.D., Professor - Experimental Condensed Matter Physics, XAFS Spectroscopy

Uma Subramanian, Ph.D., Associate Professor - Experimental Solid State Physics

Major thrust areas and achievements:

The major thrust area of the Department being Condensed Matter Physics the faculty under this banner has been pursuing research programs in diverse areas ranging from functional nanomaterials involving magnetic materials their thin films, rare-earth doped ferrites, various types of hexaferrites, long standing radiation effects on nanomaterials, nanostructures of PVA doped Gels, nano and micro glass spheres, nanoporous media like clays, Glasses, luminescent and functional nano materials, shape memory alloys, ZnO-TiO₂ functional materials, sensors, long lasting Luminescence biomarkers, materials for magneto-caloric applications, which are being explored using modern investigating tools like XRD, Neutron diffraction and SANS, GIXRD, XAS, IR, UV, and Mossbauer spectroscopy as well as XMCD techniques. Sophisticated imaging techniques like TEM, AFM, SPM, SEM are employed for particulate property studies in addition to VSM, LCR Q-meter, Resistivity and thermo-power setups for magnetic and transport property investigations. The Department although small in terms of the faculty strength, has been involved in much fruitful collaboration with research faculty coming from institutes of eminence. The faculty and the research scholars have presented a variety of research papers in national/international conferences and have also delivered invited talks.

Incremental Infrastructure:

Up gradation of laboratory infrastructure is a continuous ongoing process. During this period of 2013-14 the Department has upgraded both M.Sc. teaching and research laboratories by procuring new equipments to supplement the equipment damaged beyond repair. The existing instruments commonly used by both M.Sc. and research students namely the two probe resistivity set-up and thermo-power set up were digitized and automated to obtain the numerical data (readings) both in table format and directly in graphical form on the computer. Spares components essential for repair of high temperature 1500 C Carbolite furnace were procured and the furnace was made functional. An additional low temperature furnace for removal of moisture content in the samples essential for M.Sc, and research students was also added to the materials preparation laboratory. Some Computers to augment the computer laboratory and spares to rectify existing faulty machines were also obtained. Sophisticated instruments like VSM, AFM, BT Surface area Analyzer, were obtained under Nanomission project funding and installed which are housed in the Department of Chemistry.

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. in Lakhs)
Priolkar, K.	Ongoing	Mechanism of Long Lasting Luminescence Compounds	Indo French Council for Promotion of Advanced Research, New Delhi	84.15
Priolkar, K.	Ongoing	Study of Magneto-elastic coupling in Antiperovskite Materials	BRNS, Dept. of Atomic Energy	22.12
Priolkar, K.	Completed	Magnetic and Transport Properties of Iron Chalcogenides	DST, Govt. of India	36.90
Priolkar, K.	Completed	Study of Fe based Ferromagnetic Shape Memory Alloys	Council for Scientific and Industrial Research, New Delhi	13.40
Desa, J.A.E.	Ongoing	Structural and Optical Properties of Rare-Earth Doped Borate Glasses	UGC-DAE-CSR	1.05
Tangsali, R.B.	Completed	1. Optimization of Nitrilotriacetate Precursor method for obtaining Nanoparticle Mn-Zn ferrite materials and development of high performance microstructure based magnetic (metamaterials) for electromagnetic applications. (2010-2013)	DST, Govt. of India	Part of 2.83 Cr. Nano-mission Project.
Tangsali, R.B. with Salkar, A.V., Dept. Chemistry	Completed	2. Development of nanosize heterogeneous catalysts for detoxification of toxic gases (2010-2013)	DST, Govt. of India	Part of 2.83 Cr. Nano-mission Project.
Tangsali, R.B. with Furtado, I., Dept. Microbiology	Completed	3. Prospecting with Haloarchaea&Halophilic microbes for production of nanomaterials (2010-2013)	DST, Govt. of India	Part of 2.83 Cr. Nano-mission Project.

Tangsali, R.B. with Shyama, S.K., Dept. of Zoology	Completed	4. Genotoxicity Investigations of magnetic nanoparticles (MNPs) in mammalian cells (2010-2013)	DST, Govt. of India	Part of 2.83 Cr. Nano-mission Project.
Ramesh V.Pai	On going	Cluster mean field theory for Bose-Hubbard Models	DSTE Goa	Rs. 2.18

Conferences/Workshops, etc.,organised

Programme	Dates	Funding
DST SERC School on Advanced Functional Magnetic Materials	February 3- 21, 2014	Dept. of Science and Technology, Govt. of India
Refresher Course in Experimental Physics	May 11-26, 2014	Joint Science Education Panel of Science Academies under the aegis of MoU between Goa University and Indian Academy of Sciences.

Research publications:

Articles in journals (in SCI Journals)*

- *Dessai, R.R.; Desa, J.A.E.; Sen, D.; Mazumder, S. Effects of pressure and temperature on pore structure of ceramic synthesized from rice husk: A small angle neutron scattering investigation. *Journal of Alloys and Compounds*. 564(); 2013; 125-129.
- *Dessai, R.R.; Sharma, V.K.; Prabhudesai, S.A.; Mitra, S.; Desa, J.A.E.; Mukhopadhyay, R. Diffusion of water in bentonite clay. *Journal of The Physical Society of Japan*. 82(); 2013; SA008-.
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- *Ingle, K.E.; D'Sa, B.C.E.; Das, A.; Priolkar, K.R. Structural and magnetic phase transitions in MnTe-MnSe solid solutions. *Journal of Magnetism and Magnetic Materials*. 347(); 2013; 68-71.
- *Jagtap, S.; Priolkar, K.R. Evaluation of ZnO nanoparticles and study of ZnO-TiO₂ composites for lead free humidity sensors. *Sensors and Actuators B-Chemical*. 183(); 2013; 411-418.
- *Kothawale, M.M.; Tangsali, R.B.; Naik, G.K.; Budkuley, J.S. Effect of sintering on magnetic properties of Ni_{0.55}Zn_{0.45}Fe₂O₄. *Journal of Superconductivity and Novel Magnetism*. 26(11); 2013; 3293-3298.

- *Lobo, D.N.; Dwivedi, S.; daSilva, C.A.; Moreno, N.O.; Priolkar, K.R.; Nigam, A.K. Magnetic interactions in the martensitic phase of Mn rich Ni-Mn-In shape memory alloys. *Journal of Applied Physics*. 114(17); 2013; -.
- Naik, P.P.; Tangsali, R.B.; Sonaye, B.; Sugur, S. Radiation stimulated permanent alterations in structural and electrical properties of core-shell Mn-Zn Ferrite nanoparticles. *Journal of Nano Research*. 24(); 2013; 194-202.
- *Priolkar, K.R.; Bhoje, P.A.; Lobo, D.N.; D'Souza, S.W.; Barman, S.R.; Chakrabarti, A.; Emura, S. Antiferromagnetic exchange interactions in the Ni₂Mn_{1.4}In_{0.6} ferromagnetic Heusler alloy. *Physical Review B*. 87(14); 2013; 144412-.
- *Bessiere, A.; Sharma, S.K.; Basavaraju, N.; Priolkar, K.R.; Binet, L.; Viana, B.; Bos, A.J.J.; Maldiney, T.; Richard, C.; Scherman, D.; Gourier, D. Storage of visible light for long-lasting phosphorescence in Chromium-doped Zinc Gallate. *Chemistry of Materials*. 26(3); 2014; 1365-1373.
- *Dias, E.T.; Priolkar, K.R.; Nigam, A.K. Effect of carbon content on magnetostructural properties of Mn₃GaC. *Journal of Magnetism and Magnetic Materials*. 363(); 2014; 140-144.
- Dias, E.T.; Priolkar, K.R.; Nigam, A.K. Co-existence of ferromagnetic and antiferromagnetic interactions in Mn₃Ga_{1-x}Sn_xC. *Materials Research Express*. 1(2); 2014; 26106-.
- *Gourier, D.; Bessiere, A.; Sharma, S.K.; Binet, L.; Viana, B.; Basavaraju, N.; Priolkar, K.R. Origin of the visible light induced persistent luminescence of Cr³⁺ -doped zinc gallate. *Journal of Physics and Chemistry of Solids*. 75(7); 2014; 826-837.
- *Lawrence, M.B.; Desa, J.A.E.; Aswal, V.K.; Rai, R. Properties of poly(vinyl alcohol)-borax gel doped with neodymium and praseodymium. *Bulletin of Materials Science*. 37(2); 2014; 301-307.
- *Mishra, T.; Pai, R.V.; Mukerjee, S. Supersolid in a one-dimensional model of hard-core bosons. *Physical Review A*. 89(1); 2014; -.
- *Mistri, R.; Rahaman, M.; Llorca, J.; Priolkar, K.R.; Colussi, S.; Ray, B.C.; Gayen, A. Liquid phase selective oxidation of benzene over nanostructured Cu_xCe_{1-x}O₂-delta (0.03 ≤ x ≤ 0.15). *Journal of Molecular Catalysis A-Chemical*. 390(); 2014; 187-197.
- *Naik, P.P.; Tangsali, R.B.; Meena, S.S.; Bhatt, P.; Sonaye, B.; Sugur, S. Gamma radiation roused lattice contraction effects investigated by Mossbauer spectroscopy in nanoparticle Mn-Zn ferrite. *Radiation Physics and Chemistry*. 102; 2014; 147-152.
- SushmaPatil, Julio Fernandes, R. Tangsali, Irene Furtado, Exploitation of Haloferax alexandrines for Biogenic Synthesis of Silver Nanoparticles Antagonistic to Human and lower Mammalian Pathogens, *J. Clust.Sci* (2014) 25: 423-433.

Articles in books, conference proceedings:

- Naik, P.P.; Tangsali, R.B.; Sonaye, B.; Sugur, S. Enrichment of magnetic alignment stimulated by γ -radiation in core-shell type nanoparticle Mn-Zn ferrite. *AIP Conf. Proc.* 1512; 2013; 354-355.
- Sharma, V.K.; Prabhudesai, S.A.; Raut-Dessai, R.; Desa, J.A.E.; Mitra, S. Diffusion of water in Bentonite clay by X-ray and neutron scattering. *AIP Conf. Proc.* 1512; 2013; 918-919.
- Sharma, S.K.; Bessi re, A.; Gourier, D.; Binet, L.; Viana, B.; Basavaraju, N.; Priolkar, K.R.; Maldiney, T.; Scherman, D.; Richard, C. Persistent luminescence in ZnGa₂O₄:Cr: An outstanding biomarker for in-vivo imaging. *Proc. SPIE 8982, Optical Components and Materials.* 11; 2014; ID 898215.
- Sharma, S.K.; Bessi re, A.; Gourier, D.; Sraiki, G.; Viana, B.; Derezo, P.J.; Rudnicka, D.; Watras, A.; Basavaraju, N.; Priolkar, K.R.; Maldiney, T.; Scherman, D.; Richard, C. Optical properties and storage capabilities in AB₂O₄:Cr (A = Zn, Mg, B = Ga, Al). *Proc. SPIE 8987. Oxide based Materials and Devices.* 5; 2014; ID 89870J.

PhDs:

Thesis submitted:03 Degrees awarded:04 Students on Roll:09

Invited Lectures, Conference Presentations, etc.

Invited Lectures:

- Tangsali, R.B. Property identification in gamma irradiated magnetic nanoparticles. *Analytical Science for Innovations in Green Energy Technology and Industry.* Indian Society of Analytical Scientists (ISAS). 15-17 Aug 2013.
- Desa, J.A.E. Role of SANS in Structural Studies of PVA-Borax Hydrogels. *Conf. on Neutron Scattering.* BARC in association with NSSI at IISER, Pune. 10-12 Feb 2014.
- Priolkar K. R. Set of three invited lectures on X-ray Absorption Fine Structure Spectroscopy at "Basics of Magnetism and Investigations of Magnetic Properties of Materials using Synchrotron Radiation" held at RRCAT, Indore during March 23-28, 2014.

Conference presentations:

- Desa, J.A.E. Structural Changes due to Holmium doping in PVA-Borax Gels. *Int. Conf. in Asia (IUMRS-ICA-2013).* Int. Union of Materials Research Societies, Indian Institute of Science, Bangalore, India. 16-20 Dec 2013.
- Desa, J.A.E. Study of Pores in a Glass of Compacted Microspheres. *Int. Conf. in Asia (IUMRS-ICA-2013).* Int. Union of Materials Research Societies, Indian Institute of Science, Bangalore, India. 16-20 Dec 2013.
- Priolkar, K. Sol-gel Synthesis of ZnGa₂O₄:Cr³⁺ Nanophosphors for In Vivo Optical Imaging. *Int. Conf. in Asia (IUMRS-ICA-2013).* Int. Union of Materials Research Societies; Indian Institute of Science, Bangalore, India. 16-20 Dec 2013.

- Priolkar, K. Tuning Magnetostructural Transition in $\text{Sn}_{1-x}\text{In}_x\text{CMn}_3$ (Poster). *Int. Conf. in Asia (IUMRS-ICA-2013)*. Int. Union of Materials Research Societies, Indian Institute of Science, Bangalore, India. 16-20 Dec 2013.
- Subramanian, U. Effect of divalent ion doping on the luminescence peaks of CoWO_4 nano materials. *ICAFM 2014*. CSIR-NIIST, Thiruvananthapuram. 19-21 Feb 2014.
- Naik, P.P.; Tangsali, R.B.; Meena, S.S.; Bhatt, P.; Sonaye, B.; Sugur, S. Mossbauer Study of as prepared and gamma radiated Nanoparticle Mn-Zn Ferrite. *Science for Innovations in Green Energy Technology and Industry*, Indian Society of Analytical Scientists (ISAS). 15-17 Aug 2013.

Department of Electronics

Faculty:

Full-time

Gourish M. Naik, Ph.D., Professor and Head – Opto-electronics and Instrumentation

Rajendra S. Gad, Ph.D., Associate Professor - Multivariate System Design

Jivan S. Parab, Ph.D., Assistant Professor - Embedded System, DSP, RTOS, HDL, Fiber optic sensors

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Mr. Rohin Parkar	Senior Staff Engineer, Broadcom Corporation, USA	RF and Wireless technology	29 Aug 2013
Saleel Kudchadker	Advanced Micro Devices, California, USA	GPU Computing	2 Jan 2014

Major Thrust Areas and Achievements:

Biomedical Electronics, Agro-Electronics, DSP & VLSI, Biometric signal Processing

Since the implementation of UGC innovative program, the thrust area of the department is VLSI technology & its use in form of embedded system for development of smart instrumentation in the area of biomedical electronics. The Department has also identified specific thrust areas that are largely state specific. Use of electronics technology to monitor the soil conditions and increase of farming production is one such thrust area of the department. The Department has established Biomedical sensors laboratory, Hyper structural imaging laboratory, and Precision optical measurement laboratory.

Applied courses initiated by the department has resulted in enhancing the employment capability in fields such as VLSI, Embedded system, Electronics Design and automations and production industry in addition to the employment in research institutes.

Incremental Infrastructure:

Ocean optics NIR Quest has spectral range from 250nm-1000nm, Signal Hound Tracking and spectrum analyzer- Range :10Hz to 4.4GHz & 200KHz to 12 GHz, Hameg 3 GHz signal Generator, Range :10Hz to 3.2GHz, Hyperspectral Camera

Projects

Project Investigator	Status	Title	Funding Agency	Grant (Rs. In Lakhs)
Gad, R.S. (Co-PIs: Naik, G.M.; Kadu, R.(Concept Integration, Pune), Kakodkar, U. (GMC, Goa))	Ongoing	Design of Automatic Blood Pressure Meter Based on Oscillometric and Auscultation Principals	DST, Under Instrumentation Development Program (IDP), New Delhi	23.88

Gad, R.S. (Co-PI: Naik, G.M.)	Ongoing	Multimodal Bio-Metric System Design with Embedded System Technologies	UGC	12.42
Gad, R.S. (Co-PI: Naik, G.M.)	Ongoing	Non-Invasive Glucometer (Phase II)	ICMR, New Delhi	22.00
Parab, J.S.	Ongoing	Embedded Technology for portable multiparameter soil testing Instrument	UGC	1.95
Naik, G.M.	Ongoing	Design of hyper structural smart sensor using soft core processors	UGC	9.33

Research publications:

Articles in journals (*in SCI Journals)

- Nazareth, I.A.P.; Vernekar, S.R.; Gad, R.S.; Naik, G.M. Analysis of blood glucose. *International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering(IJIREEICE)*. 1(9); 2013; 413-417.
- Parab, J.S.; Gad, R.S.; Naik, G.M.; Vetrekar, N. Comparative studies for multivariate model of human blood tissue using gaussian and lorentz oscillators and analysis using PLS regression. *International Journal of Electrical and Electronics Engineering Research (IJEEER)*. 3(2); 2013; 1-8.
- Marchon, N.; Naik, G.M. Design and implementation of wireless heart monitor for expectant mothers 3rd trimester. *International Journal of Modern Engineering Research*. 4(3); 2014; 33-37.
- Marchon, N.; Naik, G.M. Denoising of abdominal material ECG signals. *International Journal of Engineering Research and Industrial Applications*. 7(1); 2014; 59-69.
- Marchon, N.; Naik, G.M. Detecting heart rates of expectant mothers in their 3rd trimester. *International Journal of Recent Developments in Engineering and Technology*. 2(5); 2014; 67-70.
- Parab, J.S.; Gad, R.S.; Naik, G.M. Soft core FPGA platform for blood glucose measurement. *International Journal of Pure and Applied Research in Engineering and Technology(IJPRET)*. 2(9); 2014; 60-68.
- Vernekar, S.R.; Nazareth, I.A.P.; Parab, J.S.; Naik, G.M. Radio frequency technique for analysis of urea content in soil. *International Journal of Advances in Engineering and Technology*. 6(6); 2014; 2686-2691.
- Vernekar, S.R.; Parab, J.S.; Naik, G.M. RF based soil urea analysis using multivariate system. *International Journal of Pure and Applied Research in Engineering and Technology (IJPRET)*. 2(9); 2014; 615-621.

Articles in books, conference proceedings:

- Vetrekar, N.; Gad, R.S.; Naik, G.M. Hyper spectral imaging for non invasive quantification and localization of fruit bruises. *Int. Conf. Emerging trends in Engineering and Applied Sciences, 27 Dec 2013*. College of Engineering for Women, Jaipur, Rajasthan. 2013; 177-180.
- Gad, R.S.; Vetrekar, N.; Parab, J.S.; Naik, G.M. Design of Quad quaptor Aditya for surveillance applications. *Int. Conf. Electronic Warfare, 27 Feb 2014*. IISc, Bangalore. 2014; 585-591.
- Mahale, V.; Naik, G.M.; Tirodkar, G.M. Establishing reference station for high precision RTK-GPS. *Nat. Conf. Harbour & Ocean Engineering, 5 Feb 2014*. NIO, Goa. 2014; 1-4.
- Marchon, N.; Naik, G.M. To Detect Real time non-Invasive FECG. *8. Ann. Nat. Symp. on VLSI & Embedded System, 8 Mar 2014*. PCC, Verna, Goa. 2014; 211-216.
- Marlon, S.; Gaude, S.; Vishal, S.; Naik, G.M. Smart Glove. *8. Ann. Nat. Symp. on VLSI & Embedded System, 8 Mar 2014*. PCC, Verna, Goa. 2014; 95-101.
- Nazareth, I.; Vernekar, S.; Gad, R.S.; Naik, G.M. Techniques in RF spectroscopy to Estimate noise in Biomedical tissue parameter. *8. Ann. Nat. Symp. on VLSI & Embedded System, 8 Mar 2014*. PCC, Verna, Goa. 2014; 38-42.
- Gaonkar, A.A.; Velip, A.D.; Shetgaonkar, G.G.; Fernandes, J.A.; Parab, J.S.; Gad, R.S. Design and development of 3-D printing system. *8. Ann. Nat. Symp. on VLSI & Embedded System, 8 Mar 2014*. PCC, Verna, Goa. 2014; 56-58

Ph.D.s:

Students on roll:11

Placement details:08

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Naik, G.M. Medical electronics. *Annu. Seminars in School of Electronics*. Devi Ahilya Univ., Indore. 22 Jan 2014.

University Science Instrumentation Centre (USIC)

Faculty:

Desa Joseph Alfred Erwin, Professor (Department of Physics) and Co-ordinator, Ph.D.(University of Reading, U.K) (Neutron Scattering, Solid State Physics).

Madhusudan G. Lanjewar, M. Sc. Technical Officer - I – Electronics, M.Sc. Electronics, NET/SET.

Infrastructure:

- Scanning Electron Microscope (SEM)
- Milling Machine
- Lathe Machine
- Drilling Machine (Small & Big Size)
- Glass Blowing Lathe Machine
- Metal Cutter Machine
- Welding Machine
- Metal bending Machine
- High Temperature Furnace
- Glass Cutting Machine
- Glass Surface Finishing Machine

Department of Earth Sciences

Faculty:

Full-time

A.G. Chachadi, Ph.D., Professor - Groundwater Geology, Exploration Geophysics, Environmental geology

K. Mahender, Ph.D., Professor and Head – Sedimentology & Petroleum Geology of Mesozoic Basins; Application of GIS & Remote Sensing in Earth Sciences

T. A. Viswanath, Ph.D., Associate Professor - Petrology and Precambrian Tectonics

Anthony A.A.Viegas, Ph.D., Associate Professor - Igneous Petrology

Part-time

Glancia Fernandes, Assistant Professor

Raghav Gadgil, Assistant Professor

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture/Discussion	Date
Prof. L. S. Chamyal	MS University of Baroda, Vadodara	Discussion on the Quaternary Geology	20Mar 2014
Prof. T.K. Biswal	IIT, Bombay	Structure and Tectonics: Indian Context	21 March 2014

Major Thrust Areas and Achievements:

Department could successfully complete the DRS-II level of UGC-SAP and got upgraded to DRS-III level with a financial sanction 74 lakhs with Natural (Mineral) Resources - Management and conservation as main thrust area.

Incremental Infrastructure:

Addition of new research microscope

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)
Mahender, K.	Ongoing (2013-16)	Dolomitization and geochemical nature of Proterozoic carbonate rocks of Kaladgi Basin: Implications of the origin and depositional environments	UGC	12.70
Mahender, K.	Ongoing (2014-16)	Impact of Mining on Goa's Environment (as Co-PI)	ICSSR	8.00

Mahender, K.	Ongoing (2013-18)	Mineral Resources Conservation – GIS Data Base	UGC-SAP DRS-III level program	74.00
Viegas, A.A.		Mining and Minerals of Goa		
Viswanath, T.A.		Igneous and metamorphic petrology		
Chachadi, A.G.		Groundwater Resources		
Mahender K.	Completed	Preparation of Field Guide on Kutch Sedimentary Facies	DST	6.50

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
GeoQuiz on the occasion of the foundation day of the Society for Earth Sciences (SES) celebrated as Earth Day	17 Apr 2014	Departmental

Research publications:

Articles in journals (in SCI Journals)*

- Chachadi, A.G.; D'Silva, W.S.E. Impact assessment of urbanization on groundwater regime in part of coastal Goa. *International Journal of Earth Sciences and Engineering*. 6(5: Special issue on hydrology and water resources engineering); 2013; 1143-1150.
- *Rekha, S.; Bhattacharya, A.; Viswanath, T.A. Microporosity linked fluid focusing and monazite instability in greenschist facies para-conglomerates, western India. *Geochimica Et Cosmochimica Acta*. 105; 2013; 187-205.
- *Rekha, S.; Viswanath, T.A.; Bhattacharya, A.; Prabhakar, N. Meso/Neoproterozoic crustal domains along the north Konkan coast, western India: The western Dharwar Craton and the Antongil-Masora Block (NE Madagascar) connection. *Precambrian Research*. 233; 2013; 316-336.

Articles in books, conference proceedings:

- Chachadi, A.G. Rainwater harvesting in very high rainfall area-case study. *Regional Seminar on Energy and Resource Efficiency in Urban Water Management. Case Studies on Urban Water Harvesting. Conf.*, Centre for Science and Environment, ICG, Goa. 2013; 18-27.
- Chachadi, A.G.; Warik, R. Environmental flow management strategies through flow augmentation-concepts on alternatives. *Int. Symp. Integrated Water Resources Management, CWRDM, Kozhikode, Kerala*. 2014; 668-675.

PhDs:

Degrees awarded: 01 Students on roll: 04

Placement details: 08

Awards and honours:

- Viswanath, T.A.: Chairman, Geosphere Subcommittee, *7th International Earth Science Olympiad*, Mysore, India
- Mahender, K.: Member, Technical Program Committee, *7th IGRSM International Conference and Exhibition on Remote Sensing & GIS (IGRSM 2014)*, Kuala Lumpur, Malaysia

Invited Lectures, Conference Presentations, etc.

Invited Lectures:

- Mahender, K. The assessment of Limestone Resources in Duqm, Oman. *Field Seminar*. Desert Minerals LLC, Salalah, Oman. March 2014.

2.4 Faculty of Life Sciences & Environment

Departments and Degrees:

Department of Botany	(M.Sc., M.Phil.,Ph.D.)
Department of Microbiology	(M.Sc., M.Phil.,Ph.D.)
Department of Marine Sciences	(M.Sc., M.Phil.,Ph.D.)
Department of Zoology	(M.Sc., M.Phil, Ph.D.)
Department of Biotechnology	(M.Sc., M.Phil.,Ph.D.)

FACULTY BOARD

Dean, Faculty of Life Science & Environment	Chairperson (Ex-Officio)
Head, Department of Botany	Member (Ex-Officio)
Head, Department of Zoology	Member (Ex-Officio)
Head, Department of Microbiology	Member (Ex-Officio)
Head, Department of Marine Science	Member (Ex-Officio)
Head, Department of Biotechnology	Member (Ex-Officio)
Prof. U. M. X. Sangodkar	Member (Ex-Officio)
Prof. P. K. Sharma	Member (Ex-Officio)
Prof. B.F. Rodrigues	Member (Ex-Officio)
Prof. H. B. Menon	Member (Ex-Officio)
Prof. (Ms) Irene Furtado	Member (Ex-Officio)
Prof. (Ms) Sarita W. Nazareth	Member (Ex-Officio)
Prof. S.K. Shyama	Member (Ex-Officio)
Prof. I. K. Pai	Member (Ex-Officio)
Prof. S. Krishnan	Member (Ex-Officio)
Dr. Sanjeev Ghadi	Member (Ex-Officio)
Dr. Vijaya Kerkar	Member (Ex-Officio)
Prof. C. U. Rivonkar	Member (Ex-Officio)
Dr. V. M. Matta	Member (Ex-Officio)
Dr. S. Garg	Member
Dr. S. Upadhyay	Member

Department of Botany

Faculty:

Full-time

M. K. Janarthanam, *Ph.D.*, Professor and Head - Plant Taxonomy.

Prabhat Kumar Sharma, *Ph.D.*, Professor - Plant Physiology.

B. F. Rodrigues, *Ph.D.*, Professor - Plant Breeding, Mycorrhizal Research.

Vijaya Kerkar, *Ph.D.*, Professor - Algae and Pteridophyta.

S. Krishnan, *Ph.D.*, Professor - Plant Histochemistry, Plant Biotechnology and Molecular Biology.

N. M. Kamat, *Ph.D.*, Assistant Professor - Biochemistry, Microbiology (Actinobacteria and chemolithotrophs), Mycology (yeasts, mushrooms), Fungal chemistry, Ecology and EIA, Science popularization, Environmental education.

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Dr. Prasana Kumar	Scientist, National Institute of Oceanography, Goa	Climate Change and Oceans	13 Aug 2013
Mr. Pradip Sarmokadam	ISO Lead Auditor and Environmental Consultant	Mopa Plateau Ecosystem and Solid Waste Management	3 Sep 2013
Mr. Parag Ranganekar	Mineral foundation, Goa	Ecology and Biodiversity of Butterflies and Birds	24 Sep 2013
Dr. Sangeeta Sonak	Former Fellow, Tata Energy Resources Institute	Khazan Agroecosystem	29 Oct 2013

Major Thrust Areas and Achievements:

Microbiological samples of rainwater collected under sterile conditions were subjected to microbiological analysis and interesting forms of organic and non organic as well as microbial forms were detected (results uploaded at http://www.researchgate.net/publication/260852193_rainwater_final_poster and on peer reviewed website <http://f1000.com/posters/browse/summary/1095099>). The storage, mobilization and utilization of Glycans in local species of *Bombax ceiba* was investigated with conclusion that a critical mass of stored starch is required to ensure flowering. Interesting endophytic fungi were recovered from various organs of *B. ceiba*. Plant megafossils were analysed for recovery of extremophilic microbes using a modified Winogradsky technique. Iron metabolism, storage and turnover in angiosperms species was investigated to detect unique biominerals such as iron containing magnetic sideroliths which were morphologically characterized. Work on novel non ribosomal polyketide antibiotic Streptolidigin from a soil *Streptomyces* species was completed and a thermotolerant, calcium independent and manganese activated alpha amylase was partially purified and characterised from another *Streptomyces* strain. A microfluidics technique was developed for rapid real time visualization of fungal bioprocesses. Information for designing a global

data portal TERMITOMYKOPEDIA on Genus Termitomyces was collected to launch Termitomyces bioinformatics project (results uploaded at peer reviewed <http://f1000.com/posters/browse/summary/1095103>). Goa University Fungus Culture Collection and Research Unit added more than 100 strains of actinomycetes, microfungi and mushroom cultures and a revised illustrated culture catalogue was uploaded on university website accessible at

<https://www.unigoa.ac.in/.../GoaUniversityFungusCultureCollection.pdf>

Characterization of grain quality, chalkiness and molecular genetic diversity studies of rice; micropropagation of medicinal and critically endangered plants, in-situ and ex-situ conservation of plants; AM fungal species identification and in vitro propagation using ROC.

Incremental Infrastructure:

SEM, Phytotron

Projects

Project Investigator	Status	Title	Funding Agency	Grant (Rs. In Lakhs)
Janarthanam, M.K. (Krishnan, S – Co-PI)	Completed	In-situ conservation of critically Endangered monotypic tree genus (Pseudoglochidion) and a shrub species (Phyllanthus talbotii) of Western Ghats using conventional and biotechnological tools	DBT	62.00
Janarthanam, M.K. (Krishnan, S – Co-PI)	Ongoing	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools	DBT	35.00
Janarthanam, M.K.	Ongoing	All India Coordinated Project on Sacred Grove Ecosystem Service Assessment: Ecosystem Service Assessment in Sacred Groves of Goa	MoEF	35.00
Sharma, P.K. (Kerkar, V. – Co-PI)	Ongoing	Biodiversity, Bioprospecting and Biotechnology	UGC-SAP programme	65.00
Sharma, P.K.	Ongoing	Biodiversity and ecophysiology	FIST	65.00
Krishnan, S.	Ongoing	Large scale screening for high Garcinol and hydroxycitric acid, in vitro culture and molecular characterization of Garcinia species from the Western Ghats of India	CSIR	12.61

Krishnan, S.	Completed	Grain Quality Evaluation, Chalkiness Formation and Molecular Genetic Diversity of Rice Varieties of Goa	DSTE, Govt. of Goa	5.50
Rodrigues, B.F.	Ongoing	Screening for efficient Arbuscular Mycorrhizal (AM) fungal bioinoculants in selected ornamental flowering plants of commercial importance	Department of Science & Technology (DST), New Delhi	6.22

Seminars, Conferences, Workshops, etc., organized:

Programme	Dates	Funding
Summer Training Program for undergraduate Botany students on the theme 'Microbial Biodiversity, Biotechnology and Bioinformatics'	12 Jun 2013	GUFCC

Research publications:

Articles in journals (* in SCI Journals)

- D'Souza, J.; Rodrigues, B.F. Seasonal diversity of Arbuscular Mycorrhizal fungi in mangroves of Goa, India. *International Journal of Biodiversity*. 2013; 2013; Article ID 196527.
- D'Souza, J.; Rodrigues, K.M.; Rodrigues, B.F. Modified Strullu and Romand (MSR) medium devoid of sucrose promotes higher *in vitro* germination in *Rhizophagus irregularis*. *Journal of Mycology and Plant Pathology*. 43(2); 2013; 240-242.
- D'Souza, J.; Rodrigues, B.F. Biodiversity of Arbuscular Mycorrhizal (AM) fungi in mangroves of Goa in West India. *Journal of Forestry Research*. 24(3); 2013; 515-523.
- Mascarenhas, M.E.; Janarthanam, M.K. Taxonomic status of *Strobilanthes warreensis* (Acanthaceae), an endemic species of Western Ghats, India. *Rheedea*. 23; 2013; 1-6.
- Meena, S.N.; Ghadi, S.C.; Janarthanam, M.K. Evaluation of medicinal properties of *Grewia nervosa* (Lour.) Panigrahi. *International Journal of Pharma and Bio Sciences*. 4(4); 2013; 821-828.
- Meena, S.N.; Ghadi, S.C.; Janarthanam, M.K. Evaluation of medicinal properties of *Grewia nervosa* (Lour.) Panigrahi. *International Journal of Pharma and Bio Sciences*. 4(4); 2013; 821-828.
- Naik, S.S.; Pagare, R.S.; Krishnan, S.; Janarthanam, M.K. Systematic position of *Phyllanthus talbotii* (Phyllanthaceae), a critically endangered species of Western Ghats, India. *Rheedea*. 23; 2013; 13-18.
- Patil, B.B.; Janarthanam, M.K. Distribution of some obnoxious weeds in north-western Ghats of India. *Indian Journal of Weed Science*. 45(4); 2013; 267-272.
- Rodrigues, K.M.; Rodrigues, B.F. *In vitro* cultivation of Arbuscular Mycorrhizal (AM) fungi. *Journal of Mycology and Plant Pathology*. 43(2); 2013; 155-168.

- *Velho-Pereira, S.; Kamat, N.M. Actinobacteriological research in India. *Indian Journal of Experimental Biology*. 51(8); 2013; 573-596.
- *Willis, A.; Rodrigues, B.F.; Harris, P.J.C. The ecology of arbuscular mycorrhizal fungi. *Critical Reviews in Plant Sciences*. 32(1); 2013; 1-20.
- Pednekar, S.M.; Kerkar, V.; Matondkar, S.G.P. Spatiotemporal distribution in phytoplankton community with distinct salinity regimes along the Mandovi estuary, Goa, India. *Turkish Journal of Botany*. 38(4); 2014; 800-818.
- Prabhugaonkar, A.; Mesta, D.K.; Janarthanam, M.K. First report of three redlisted tree species from swampy relics of Goa state, India. *Journal of Threatened Taxa*. 6(2); 2014; 5503-5506.
- Rodrigues C.R.; Rodrigues, B.F. Enhancement of seed germination in *Trema orientalis* (L.) Blume - Potential plant species in revegetation of mine wastelands. *Journal of Sustainable Forestry*. 33; 2014; 46-58.
- *Rodrigues, C.R.; Rodrigues, B.F. Influence of organic amendments and arbuscular mycorrhizal inoculation on plant growth and nutrient uptake in iron ore mine spoils. *International Journal of Mining Reclamation and Environment*. 28(4); 2014; 219-230.

Articles in books, conference proceedings:

Rodrigues, K.M.; Rodrigues, B.F. Arbuscular Mycorrhizal (AM) Fungi for sustainable Agriculture. *Advances in Plant Sciences for sustainable Rural Development*. Ed. by: N.M. Ghanagaonkar. C.T. Bora College, Shirur. 2014; 8-21.

PhDs:

Degrees awarded:04 Students on roll:18

Placement details:03

Ms. Sonashia Velho–Pereira, a Ph.D scholar was selected as post doc RA at UNICHEM biosciences;

Mr. Siddesh Naik, a Ph.D scholar was selected to undergo training as Range Forest Officer;

Mr. Dattaparasad Toraskar (2011-2) M.Sc. was selected to undergo training as PSI, Goa Police.

Awards and honours:

Rodrigues, B.F.: Elected as Fellow, Indian Society of Mycology and Plant Pathology in 2014.

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- **Sharma, P.K.** Zinc oxide nanoparticle induced biochemical and physiological response in *oryza sativa* plants grown hydroponically. Nat. Conf. on Plant Physiology. 2013. Indian Soc. Plant Physiology at Agricultural University Junagarh, Gujarat. 13-16 Dec 2014.

- **Sharma, P.K.** Physiological, biochemical and molecular changes in blue green algae due to UV and high light exposure. Int. Conf. Ecosystem Conservation, Climate Change and Sustainable Development. Ambo University Ethiopia with Directorate of Environment and climate change, Govt. of Kerala and University of Kerala at Univ. of Kerala, Thiruvananthapuram. 3-5 Oct 2013.
- **Rodrigues, B.F.** Recent Advances in Biology: Nanoscience. Nat. Conf. Life Sciences: An outlook and Challenges. Dahiwadi College, Dahiwadi, M.S. 13-14 Dec 2013.
- **Kerkar, V.** Studies on lesser attended plant groups. Nat. Conf. Status, Opportunities and Challenges in Life sciences. Ahmednagar College. 18 Sep 2013.
- **Kamat, N.M.** Cultural Policy of Goa. Goa-Israeli Exchange by Kala Academy, GCCI; Norway-India Chamber of Commerce and Industry (NICCI); Indo-Norwegian Chamber of Commerce (Goa); Hebrew University, Jerusalem. Kala Academy, Panaji, 30 Jan 2014.

Conference presentations:

- Krishnan, S. Palkar, R.S.; Janarthanam, M.K.; Krishnan, S. Preliminary studies on distribution of *Garcinia* species from Western Ghats of India. 23. Annu. Conf. IAAT and Nat. Sem. Recent Advances in Plant Taxonomy and Research, Dept. of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, India. 27-29 Dec 2013.
- Krishnan, S. Deshpande, A.S.; Krishnan, S.; Janarthanam, M. K. Molecular phylogenetic analysis and systematic position of two endemic species of *Dipcadi Medik* from Northern Western Ghats. 23. Annu. Conf. IAAT and Nat. Sem. Recent Advances in Plant Taxonomy and Research, Dept. of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, India. 27-29 Dec 2013.
- Rodrigues, B.F. AM Fungi – Colonists of Land Plants. Recent Advances in Biology: Nanoscience. Dahiwadi College, Dahiwadi, M.S. 13-14 Dec 2013.
- Rodrigues, B.F. Arbuscular Mycorrhizae and Plants. Nat. Conf. on Fungi in Agriculture. N.E.S. Ratnam College of Arts, Science and Commerce and Mycological Society of India (Mumbai Unit). 28-29 Jan 2014.
- Rodrigues, B.F. Arbuscular Mycorrhizae – Isolation, identification and culturing. Nat. Conf. on Recent Advances in Agriculture and Environmental Biotechnology. Dr. Babasaheb Ambedkar College of Arts, Science and Commerce, Mahad, Raigad. 7-8 Feb 2014.
- Rodrigues, B.F. 'Development of *Rhizophagus irregularis* in association with transformed chicory roots on synthetic medium'. 35. Annu. Conf. and Symp. on Innovative and Ecofriendly Research Approaches for Plant Disease Management. Dept. of Plant Pathology, Dr. PDKV, Akola and Indian Society of Mycology and Plant Pathology, Udaipur, Rajasthan. 8-10 Jan 2014.
- Rosy Agnes D'Souza, R.A.; Kamat, N.M. Glimpses of TERMITOMYCOPEDIATM project – present state of bioinformatics of Termitomyces- termite mutualistic system

(poster). Nat. Conf. Current and Emerging Trends in Life Science. Smt. Parvatibai Chowgule College of Arts and Science, Margao. 18-19 Mar 2014.

- Rosy Agnes D'Souza, R.A.; Kamat, N.M. Microfluidics in mycology – fabrication and use of multichamber microfluidics devices (MCMFD) for live monitoring of cellular and biochemical processes in fungal microcolonies (poster). Nat. Conf. Current & Emerging Trends in Life Science. Smt. Parvatibai Chowgule College of Arts and Science, Margao. 18-19 Mar 2014.

Department of Microbiology

Faculty:

Full-time

Santosh Kumar Dubey, Ph.D., Professor and Head - Molecular Microbiology, Genetic Engineering, Environmental Biotechnology

Saroj Bhosle, Ph.D., Professor, General and Environmental Microbiology, Marine Microbiology, Extremophiles

Irene J. Furtado, Ph.D., Professor - Applied Microbiology (Extremophilic Eubacteria and Archaea)

Sarita Nazareth, Ph.D., Professor - Biochemistry & Mycology: Enzymes, Degradations, Metal remediation, Halophilic fungi.

Sandeep Garg, Ph.D., Associate Professor - Industrial and Marine Microbiology, Microbial and Fermentation Technology, Medical Microbiology and epidemiology, Fishery Microbiology, Immunology, Biofertilizer, Biostatistics, Biomathematics, Computer Applications in Biology, Microbial Biodiversity, Ecorestoration.

.Tenure (wef Nov 2013 Under Innovative Programme of M. Sc. Marine Microbiology)

Priya M. D'Costa, *Ph.D.*, Assistant Professor - Marine Microbiology

Milind Mohan Naik, *Ph.D.*, Assistant Professor - Molecular Biology and Environmental Microbiology.

Major Thrust Areas and Achievements:

Applied Environmental Microbiology and Marine Microbiology – Ecology of extremophiles with focus on halophilic microorganisms (Archaea, Bacteria, Fungi), their molecular microbiology and genetic engineering, heavy metal bioremediation and bioprospecting for industrially important enzymes (protease, xylanase, amylase cellulases, lipase), antimicrobials and PHA.

Achievements:

Completion of the first batch of the UGC-Sponsored Innovative Programme of M. Sc. In Marine Microbiology (16 students)

Formulation of the need -based new Programme of MSc Biochemistry.

Incremental Infrastructure: Nanodrop Spectrophotometer, RT-PCR, PCR, Microscope, -20 Freezer, Gel Doc system.

Research publications: *Articles in journals (* in SCI Journals)*

- Basu, S.; Deobagkar, D.D.; Matondkar, S.G.P.; Furtado, I. Culturable bacterial flora associated with the dinoflagellate green *Noctiluca miliaris* during active and declining bloom phases in the northern Arabian Sea. *Microbial Ecology*. 65(4); 2013; 934-954.
- Basu, S.; Matondkar, S.G.P.; Furtado, I. Retrieved bacteria from *Noctiluca miliaris* (green) bloom of the northeastern Arabian Sea. *Chinese Journal of Oceanology and Limnology*. 31(1); 2013; 10-20.

- Braganca, J.M.; Furtado, I. Resistance of *Halobacterium* strain R1 to cadmium during growth in mineral salts medium devoid of growth factors. *Asian Journal of Microbiology, Biotechnology and Environmental Science*. 15(2); 2013; 299-302.
- D'Costa, B.; Khanolkar, D.; Dubey, S.K. Partial purification and characterization of metalloprotease of halotolerant alkaliphilic bacterium, *Bacillus cereus* from coastal sediment of Goa, India. *African journal of Biotechnology*. 12; 2013; 4904-14-.
- D'Costa, B.; Shamim, K.; Dubey, S.K. Characterization of thermostable serine protease from *Bacillus altitudinis* strain BR1. *Journal of Scientific & Industrial Research*. 72(3); 2013; 166-171.
- Naik, M.M.; Dubey, S.K. Lead resistant bacteria: Lead resistance mechanisms, their applications in lead bioremediation and biomonitoring. *Ecotoxicology and Environmental Safety*. 98; 2013; 1-7.
- Naik, M.M.; Dubey, S.K.; Khanolkar, D.; D'Costa, B. P-type ATPase and MdrL efflux pump-mediated lead and multi-drug resistance in estuarine bacterial isolates. *Current Science*. 105(10); 2013; 1366-1372.
- Naik, M.M.; Khanolkar, D.; Dubey, S.K. Lead-resistant *Providencia alcalifaciens* strain 2EA bioprecipitates Pb⁺² as lead phosphate. *Letters in Applied Microbiology*. 56(2); 2013; 99-104.
- Nayak, P.K.; Mohanty, A.K.; Gaonkar, T.; Kumar, A.; Bhosle, S.N.; Garg, S. Rapid identification of polyhydroxyalkanoate accumulating members of Bacillales using internal primers for phaC gene of *Bacillus megaterium*. *ISRN Bacteriology*. 2013; 2013; Article ID 562014.
- *Shamim, K.; Naik, M.M.; Pandey, A.; Dubey, S.K. Isolation and identification of *Aeromonas caviae* strain KS-1 as TBTC- and lead-resistant estuarine bacteria. *Environmental Monitoring and Assessment*. 185(6); 2013; 5243-5249.
- Naik, S.; Furtado, I. Equilibrium and kinetics of adsorption of Mn²⁺ by Haloarchaeon *Halobacterium* sp GUSF (MTCC3265). *Geomicrobiology Journal*. 31(8); 2014; 708-715.
- Pereira, V.; Furtado, I. Retrieval of euryhaline eubacterial and haloarchaeal bionts from nine different benthic sponges: Reflection of the bacteriological health of waters of Mandapam, India. *Indian journal of Geo-marine Sciences*. 43(5); 2014; 773-783.
- Nazareth, S.; Gonsalves, V. *Aspergillus penicillioides* –a true halophile existing in hypersaline and polyhaline econiches. *Annals of Microbiology*. 64(1); 2014; 397-402.

PhDs:

Thesis submitted: 02

Degrees awarded: 05

Students on roll: 12

Awards and honours:

Dubey, S.K. Member, National Committee to prepare Glossary of Botany

Nazareth, S. Nominated by Mycological Society of India for Shome Memorial Lecture award.

Invited Lectures, Conference Presentations, etc.*Invited Lectures*

- Dubey, S.K. Glow in dark microbes as sensitive marker for ionic mercury monitoring. *College level Seminar*. Dept. of Microbiology, St. Xavier's College, Mapusa, Goa. 25 Sept 2013.

Conference presentations:

- Garg, S. Role of sortase-A in biofilm formation of *Listeria monocytogenes*. Biofilm formation ability and disinfectant resistance of *Listeria monocytogenes*. *Int. Symp. Problems of Listeriosis XVIII (ISOPOL XVIII)*. ICAR-Goa. 19-22 Sep 2013.
- Bhosle, S.; Kharangate, A. Studies on halophilic and halotolerant bacteria adhered to mangrove pH litter. *Applied Biotechnology, Microbiology and Bioinformatics*. Society of Applied Biotechnology, Tirupathi. 29-30 Jun 2013
- Bhosle, S.; Kharangate, A. Studies on siderophore producing halophilic and halotolerant bacteria adhered to mangrove plant litter. *Environment and Biodiversity*. Environment and Biodiversity of India, NCEER, Pune, 6 Oct 2013.
- Nazareth, S.; Gonsalves, V. The true halophilic fungus *Aspergillus penicillioides*. *Halophiles Conference*. University of Connecticut Storrs, CT 06269, 23-27 Jun 2013.
- Nazareth, S.; Gonsalves, V. Production of compatible solutes by halophilic fungi. *10. Int. Marine Biotechnology Conf.* Brisbane Convention and Exhibition Centre, Brisbane, Victoria, Australia. 11-15 Nov 2013.
- Nazareth, S. Halophilic fungi. *Nat. Conf. on Fungal Diversity and Biotechnology for Food and Chemicals (FDBFC)* and *40. Annu. Meeting: Mycological Society of India*. Centre of Advanced Study in Marine Biology, Annamalai University, Parangipettai, Tamilnadu, India. 27-28 Feb 2014.

Department of Marine Sciences

Faculty:

Full-time

- **G. N. Nayak, Ph.D., Professor and Head** - Marine Geology - Sediment Geochemistry
- **Harilal B. Menon, Ph.D.**, Professor - Physical Oceanography, Marine and Atmospheric Optics
- **Chandrashekher U.Rivonker, Ph.D.**, Professor - Marine Biology
- **Vishnu Murty Matta, Ph.D.**, Professor - Marine Chemistry
- **S. Upadhyay, Ph.D.**, Associate Professor - Marine Chemistry, Estuarine Chemistry, Aquatic Chemistry
- **Aftab A. Can, Ph.D.**, Assistant Professor - Physical Oceanography, Satellite Oceanography and Marine Meteorology.

Major Thrust Areas and Achievements:

Physical Oceanography: Radiative transfer modeling of visible spectrum of EMR and algorithm development to retrieve optically active substances from coastal and estuarine waters (Case II waters) through optical remote sensing and process studies; Analysis of aerosol from in-situ and remotely sensed data, Estimation of radiative forcing, Air-sea interaction and genesis of water masses. Satellite Oceanography and meteorology, Air-sea interaction and Genesis of water masses, Ocean circulation.

Marine Chemistry: Spatial and temporal variations of nutrients and trace metal distribution in estuaries. Sorption modeling of trace metals. Biogeochemical cycling of nutrients and trace metals in estuaries and adjoining coastal waters. Impact of pollutants on water quality, sediment composition and biota in estuaries and adjoining coastal waters.

Marine Biology: Data base and photo-documentation of demersal fish communities in coastal and estuarine waters; Trawl catch trends and composition.

Marine Geology: Coastal and estuarine sediment characterization, Coastal morphology and dynamics, Coastal zone management, Impact of mining on lacustrine and estuarine sedimentary environment – suspended and bed – load sediments, Geochemistry of lacustrine and estuarine sediments and tidal / mudflat sedimentary environment, Speciation of elements in estuarine sediments and bioavailability of metals, Magnetic susceptibility of estuarine and mudflat sediments, Suspended matter and its chemistry of Southern Ocean, Environment assessment studies of estuaries and lakes, Reading pollution history through mudflat studies.

Incremental Infrastructure: T.O.C.analyzer and accessories (01 no.), Inverted Fluorescence Microscope (01 no.), Microscope (02 nos.), Bench top pH meter (02 nos.), Niskin water Sampler (01 no.), Zooplankton Splitter (01 no.), Hot Plate(02 nos.), Deep Freezer -20°C (01 no.), Vacuum Pump (02 nos.), Pre-filtration Unit (01 no.), Overhead Projector (01 no.), Split A. C. 1.5 ton (01 no.), Handheld G.P.S. (01 no.), Wooden lab Stools (10 nos.), Notice Board (01 no.), Display Boards (01 no.), Additional Space allotted by the University (Six Labs in the Ground Floor of Block C).

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)
Menon, H.B.	Ongoing	Variability of colour components in estuarine and coastal regions of eastern Arabian sea and its predictive potential to Naval applications	Naval Research Board, (NRB), Min of Defense, New Delhi	61.47
Menon, H.B.	Ongoing	Establishing a network station at Goa University for atmospheric boundary layer measurements	ISRO-GBP, SPL, VSSC, ISRO NOBLE project	86.65
Menon, H.B.	Ongoing	Optical characterisation of case II waters and retrieval of colour components from an optical sensor	MOEs, INCOIS	61.23
Menon, H.B.	Ongoing	Aerosol radiative forcing over India	Space Physics Research Laboratory, VSSC, ISRO, Trivandrum	40.00
Rivonker, C.U.	Ongoing	Ballast water management programme, India	Ministry of Shipping, Govt. of India, New Delhi	106.00
Matta, V.M.	Ongoing	Atmospheric deposition and its influence on nutrients in coastal waters of Goa, west coast of India	MoES	47.37
Matta, V.M.	Ongoing	Biogeochemical studies of Arabian Sea and the effect of Riverine inputs from the Mandovi-Zuari system along the west coast of India	MoES	64.00
Nayak, G.N.	Ongoing	High resolution paleoclimatic studies from the Bay of Bengal	Ministry of Earth Sciences, Govt. of India, New Delhi	12.78

Nayak, G.N.	Ongoing	Estimation of Beryllium from polar regions – and lake sediments (like Dal lake, Loktak lake, Lakes in Leh region) – paleo-oceanographic implications	Accelerator Users Committee (AUC) of UGC, New Delhi	6.00
Menon, H.B.	Completed	Bio-optical properties of coastal waters, between Goa and Kochi, for modeling illumination and retrieval of Ocean Colour components through ocean colour monitor (OCM) on board IRS-P4	Naval Research Board (NRB), Govt of India	46.13
Menon, H.B.	Completed	Aerosol Radiative forcing over India	Space Physics Research Laboratory, VSSC, ISRO, Trivandrum	57.00
Nayak, G.N.	Completed	Understanding depositional environments, metal concentrations and processes through the study of mudflats within Mandovi-Zuari estuarine system, Goa	University Grants Commission, New Delhi	6.86
Rivonker, C.U.	Completed	Coastal Zone Management: Biogeochemical cycling of environmentally sensitive elements in the Mandovi-Zuari riverine, estuarine and shelf regions of Goa, West coast of India	Department of Ocean Development, New Delhi	19.00
Rivonker, C.U.	Completed	Monitoring and evaluation of the dispersal and persistence of genetically engineered DNA sequences and	Department of Biotechnology New Delhi	27.00

		organisms in selected microcosms and Natural Marine - Ecosystems		
Rivonker, C.U.	Completed	Mobile epi-benthic and finfish diversity along the Goa and Vishakapatnam harbour	Ministry of Shipping, Govt. of India, New Delhi	6.83

Research publications:

Articles in journals (* in SCI Journals)

- *Pande, A.; Nayak, G.N. Understanding distribution and abundance of metals with space and time in estuarine mudflat sedimentary environment. *Environmental Earth Sciences*. 70(6); 2013; 2561-2575.
- *Tilstone, G.H.; Lotliker, A.A.; Miller, P.I.; Ashraf, R.M.; Srinivasa Kumar, T.; Suresh, T.; Ragavan, B.R.; Menon, H.B. Assessment of MODIS-Aqua chlorophyll-a algorithms in coastal and shelf waters of the eastern Arabian Sea. *Continental Shelf Research*. 65; 2013; 14-26.
- *Volvoikar, S.P.; Nayak, G.N. Evaluation of impact of industrial effluents on intertidal sediments of a creek. *International Journal of Environmental Science and Technology*. 10(5); 2013; 941-954.
- *Singh, K.T.; Nayak, G.N.; Fernandes, L.L.; Borole, D.V.; Basavaiah, N. Changing environmental conditions in recent past – Reading through the study of geochemical characteristics, magnetic parameters and sedimentation rate of mudflats, central West Coast of India. *Paleogeography, Paleoclimatology, Paleoecology*. 397; 2014; 61-74.
- *Fernandes, M.C.; Nayak, G.N.; Pande, A.; Volvoikar, S.P.; Dessai, D.R.G. Depositional environment of mudflats and mangroves and bioavailability of selected metals within mudflats in a tropical estuary. *Environmental Earth Sciences*. 72(6); 2014; 1861-1875.
- Hegde, M.R.; Padate, V.P.; Rivonker, C.U. Biological aspects and catch trends of elasmobranchs in the inshore waters of Goa, west coast of India. *International Journal of Marine Science*. 4(45); 2014; 1-12.
- *Menon, H.B.; Shirodkar, S.; Kedia, S.; Ramachandran, S.; Babu, S.; Moorthy, K.K. Temporal variation of aerosol optical depth and associated shortwave radiative forcing over a coastal site along the west coast of India. *Science of the Total Environment*. 468(); 2014; 83-92.
- Nayak, G.N. Estuary as a sedimentary depositional environment – A review. *Lakes and Environmental Aspects*. Ed. by: Sumedh K. Humane and Yogesh A. Murkute. *Gondwana Geological Magazine*. 15; 2014; 121-132.
- *Padate, V.P.; Rodrigues, R.; Rivonker, C.U. New records of rare marine fishes from the Gulf of Mannar, India. *Acta Ichthyologica et Piscatoria*. 44(3); 2014; 241-248.

- *Volvoikar, S.P.; Nayak, G.N.; Mazumdar, A.; Peketi, A. Reconstruction of depositional environment of a tropical estuary and response of delta C-13(org) and TOC/TN signatures to changing environmental conditions. *Estuarine Coastal and Shelf Science*. 139; 2014; 137-147.

Articles in books, conference proceedings:

- Menon, H.B.; Halarnekar, S.; Sangekar, N.P. Variability of remote sensing reflectance, colour components and radiative transfer modelling of an estuary along the west coast of India. *Nat. Symp. on Coastal Oceanographic studies: Modelling and observations (COS-MOS)*. 9-10 May 2013. NPOL, Defence Research and Development Organisation, Kochi, India. 20-30
- Shirodkar, S.; Menon, H.B. Inter-annual variability of aerosol over Goa, along the west coast of India: Study performed during three year period between 2008-2010. *Proc. of GBP Conf*. 8-9 Jan 2014. SPL, VSSC, Thiruvananthapuram, Kerala, India. 50-58

PhDs:

Thesis submitted: 05 Degrees awarded: 01 Students on roll: 16

Placement details: 02

Awards and honours:

- Nayak, G.N. President, Indian Association of Sedimentologists

Invited Lectures, Conference Presentations, etc.

Conference Presentations:

- Menon, H.B.; Hulswar, S. Black carbon (bc) mass concentration, chemical and micro-physical characteristics of aerosol over the region between Indian and Southern Oceans (in the area between 8 degrees N and 55 degrees S). *Ann. Conf. of AOGS*. Brisbane, Australia. 24-28 Jun 2013. Abstract: p88.
- Nayak, G.N. Evidences of increased marine processes in recent years along Central West Coast of India. *Nat. Conf. on Sedimentation and Tectonics with special reference to Energy Resources of North East India and 30th convention of Indian Association of Sedimentologists*. Department of Geology, Manipur University, Manipur. 28-30 Nov 2013.
- Padate, V.P.; Rivonker, C.U. Recent trends of demersal marine fish and invertebrate production in South East Asia: An appraisal. *India-ASEAN Workshop on Ballast water Management*. Kantary Hills, Chiang Mai, Thailand. 26-28 Nov 2013.
- Padate, V.P.; Rivonker, C.U. New distributional records of marine demersal fauna from coastal waters of India. *India-ASEAN Workshop on Ballast water Management*. Kantary Hills, Chiang Mai, Thailand. 26-28 Nov 2013.
- Fernandes, M.; Nayak, G.N. Reading depositional processes through mudflat cores of an estuary. *Indian Geophysical Union*. National Geophysical Research Institute, Hyderabad. 8-12 Jan 2014.

- Nayak, G.N. Mudflats sediments – A tool to understand changing estuarine processes, central west coast of India. *Nat. Conf. on Modern trends in Coastal and Estuarine Studies*. Dept. of Earth Sciences, Tilak Maharashtra Vidyapeeth, Pune. 6-7 Feb 2014.
- Norohna, C.; Nayak, G.N. Understanding the differential processes that occur in mangrove and mudflat sediments within an estuary, West Coast of India. *Indian Geophysical Union*. National Geophysical Research Institute, Hyderabad. 8-12 Jan 2014.
- Volvoikar, S.; Nayak, G.N. Reconstruction of Environment of Deposition of Mudflat and Mangrove sediment along north Maharashtra coast, India. *Indian Geophysical Union*. National Geophysical Research Institute, Hyderabad. 8-12 Jan 2014.

Other information

- Menon, H. B. Convenor and session chair, Interdisciplinary approaches for climate/weather studies *Ann. Conf. AOGS*. Brisbane, Australia. 24-28 Jun 2013.
- Mr. Hulswar Shrivardhan, Research Fellow, participated in Antarctica Expedition.
- 15 M.Sc. students attended onboard cruise training programme on O.R.V. Sagar Kanya.

Department of Zoology

Faculty:

Full-time

I.K. Pai, Ph.D., Professor - Zooplanktology, Biodiversity

R. Roy, Ph.D., Professor and Head - Environmental Physiology, Lipid Biochemistry, Nutritional Biochemistry

Shyama S.K., Ph.D., Professor - Genetic Toxicology, Human Genetics, Environmental Mutagenicity

On contract

Minal Shirodkar-Desai, Assistant Professor - Avian Biology, Biodiversity

Suphala Pujari, Assistant Professor - Nutritional Biochemistry, Environmental Physiology

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Dr. P. Nayak	Professor of Physiology, NRI Medical College of General Hospital, Guntur, AP	Modern trend in Animal physiology	30 Sep - 4 Oct 2013
Dr. Sharmila Monterio	Director, Directorate of Fisheries, Govt of Goa	Prospects of carp culture in Goa	28 Feb 2014
Dr. S.K. Saidapur	Emeritus Professor, Department of Zoology, Former Vice Chancellor, Karnataka University	Evolutionary Biology	23 Mar 2014

Major Thrust Areas and Achievements:

Research activities are focused on the Animal Tissue Culture pertaining to cell lines of some invertebrates; Adaptation Biochemistry with respect to membrane structure and cellular functions; Nutritional Biochemistry with respect to lipid metabolism and role of PUFA in maintaining the organism in a well being state; Human Genetics concerning congenital malformations; Genetic toxicology; Anti-mutagen city and Antitumor studies of spices; Bioprospecting, Biodiversity and Ecodynamic studies pertaining to zooplankton, ants, beetles etc. of the region; Ornithological studies with respect to freshwater and estuarine wetlands and ecology of monoculture forest plantation; Toxicological studies with respect to several physiological activities of non target and target organism.

Incremental Infrastructure:

Shifted to a new premises with modern infrastructure

Laboratories equipped with Fluorescence detector for HPLC, Fluorescence Microscope, Microplate Reader

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)
Shyama S.K.	Ongoing	Evaluation of the genotoxic effect of ionizing radiation in somatic/ germinal cells of fishes	BRNS, DAE, Govt. of India	40.65
Roy, R.	Ongoing	Lipidomics of some fish: Control of inflammatory diseases	DBT, New Delhi	35.45
Shyama, S.K.	Ongoing	Genotoxicity studies on Field Populations of Commercially important Fin Fishes and Shell Fishes of Central West Coast of India	Ministry of Earth Sciences, Govt. of India	15.89
Shyama, S.K.	Ongoing	Genotoxicity Investigations of Magnetic Nanoparticles (MNPs) in Mammalian cells	Department of Science & Technology (Nano Mission), Govt. of India	260.90
Roy, R.		Role of lipid in osmoregulation during salinity adaptation in mud crab, <i>Scylla serrate</i>	UGC	27.70

Research publications:

Articles in journals (* in SCI Journals)

- Bhoite, S.; Roy, R. Role of membrane lipid in osmoregulatory processes during salinity adaptation: a study with chloride cell of mud crab, *Scylla serrata*. *Marine and Freshwater Behaviour and Physiology*. 46(5); 2013; 287-300.
- Kadam, S.B.; Shyama, S.K.; Almeida, V.G. Evaluation of the in vivo genotoxic effects of gamma radiation on the peripheral blood leukocytes of head and neck cancer patients undergoing radiotherapy. *Mutation Research -Genetic Toxicology and Environmental Mutagenesis*. 752(41641); 2013; 42-46.
- Lizanne, M.; Pai, I.K. Checklist of soil nematodes, based on vegetation, from the south Goa district, Goa. *Biojournal*. 8(2); 2013; 27-34.
- Priolkar, K.; Pai, I.K. A survey for diversity and seasonal abundance of zooplankton communities in temple tanks of Ponda Taluka, Goa. *Biojournal*. 8(2); 2013; 80-89.
- Priolkar, K.; Pai, I.K. Seasonal variation of zooplankton community in two sacred temple tanks of Ponda, Goa India. *Biojournal*. 8(1); 2013; 44-52.

- PraveenKumar, M.K.; Shyama, S.K.; Sonaye, B.S.; Naik, U.R.; Kadam, S.B.; Bipin, P.D.; D'costa, A.; Chaubey, R.C. Evaluation of gamma-radiation-induced DNA damage in two species of bivalves and their relative sensitivity using comet assay. *Aquatic Toxicology*. 150(); 2014; 1-8.

PhDs:

Thesis submitted:01 Degrees awarded:04 Students on roll:14

Awards and honours:

Roy, R.: Member, European Atherosclerosis Association

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Pai, I.K. Biodiversity: Past, Present and Future. *Nat. Conf. on Emerging Trends in Life Sci.* S.P. Chowgule College, Madgao.
- Roy, R. Dietary lipid and inflammatory diseases. *5. Congress of FIPS.* Tirupati. 17-19 Dec 2013.

Conference presentations:

- Bhoite, S.; Roy, R. Modulation of chloride cell membrane lipid bilayer of mud crab, *Scylla serrata* during salinity adaption. *5. Congress of FIPS.* Tirupati. 17-19 Dec 2013.
- Kamat, S.; Roy, R. Effect of fish oil in alloxan induced diabetic mice, *Mus musculus*. *5. Congress of FIPS.* Tirupati. 17-19 Dec 2013.
- Pai, I.K. Contributions from Antarctica for Biological Research. *Natl. Sem. on Frontiers in Chemical and Biol. Res.* PDVP College, Tasgaon, Maharashtra. 23-24 Sep 2013.
- Pai, I.K. Environmental impact & organism response: a case study at Antarctica. *Natl. Conf. on Environmental Impact & Organism Response*, Sri Dr.RGF Rathod College, Murtizapur, Akola. 27-28 Sep 2013. .
- Pai, I.K. Can sericulture help to improve economic standards of rural Goan women?.*Natl. Conf. on Recent Trends in Modern Biology & Sericulture for Women Empowerment and Rural Development.* KSS&DI, Bangalore. 24-26 Oct 2013.
- Shyama, S.K. Zebrafish embryos as bioindicators of exposure to gamma radiation. *Nat. Seminar on Trends in Animal Biotechnology and Its Applications.* St. Aloysious College, Mangalore. 10-11 Dec 2013 .
- Shyama, S.K. Toxicity assessment of gamma radiation in early life stages of zebrafish (*Danio rerio*). *Int. Conf. Radiation Biology and Clinical Applications.* KSHEMA, Mangalore, India. 25-27 Oct 2013.
- Shyama, S.K. Assessment of DNA damage at various targets of head and neck cancer patients after gamma irradiation as measured by comet assay. *Int. Conf. Radiation Biology and Clinical Applications.* KSHEMA, Mangalore, India. 25-27 Oct 2013.

Department of Biotechnology

Faculty:

Full-time

- **U.M.X. Sangodkar, Ph.D.**, Professor, Genetic engineering, Microbiology, Biodegradation
- **Usha D. Muraleedharan, Ph.D., Professor and Head** – Biochemistry, Enzymology
- **SavitaKerkar, Ph.D.**, Professor - Marine microbiology
- **Urmila Barros, Ph.D.**, Associate Professor - Immunology
- **Sanjeev C. Ghadi, Ph.D.**, Associate Professor - Enzymology, Genetics and molecular Biology

Contractual:

- Carina Cordeiro
- Shital Kumkar

Visiting scholars:

Name of the Scholar	Institution	Title of Lecture	Date
Dr. Ashwin Rai and Dr. Praveen Rai	College of Fisheries, Mangalore University	Introduction to Marine Pharmacology	13-14 Mar 2014
Shri R.A. Shreepada Scientist, BOD	National Institute of Oceanography, Goa	Aquaculture technology (lecture series)	Jan-Mar 2014
Dr. C. Ravindran	National Institute of Oceanography, Goa	Microbial techniques: Disease diagnosis (lecture series)	Feb-Mar 2014
Dr. Maria Judith Gonsalves	National Institute of Oceanography, Goa	Global climate change and impact on species diversity and productivity; oceans as a carbon sink, effects on coral bleaching	Jan 2014
Dr. P. A. Loka Bharathi	National Institute of Oceanography, Goa	Marine biodiversity: defining measurements and conservation strategies	Feb 2014
Dr. Manguesh Gauns	National Institute of Oceanography, Goa	Estimation of chlorophyll and primary productivity	Mar 2014
Dr. M.V. Deshpande	Chief Scientist and Prof. ACSIR Biochemical sciences Division, National Chemical Laboratory (NCL) Pune	Fungal entomo- and myco-pathogens: Exploration for their additional applications other than biocontrol.	7 Mar 2014

Prof. Sujatha Ramdorai	School of Mathematical Sciences, TIFR, Mumbai	Interest in Numbers	20 Feb 2014
Prof. G.C. Kundu	NCCS, Pune	Microbial Biotechnology	17 Feb 2014

Major Thrust Areas and Achievements:

Study of agarases and other commercially important enzymes from marine bacteria.
 Unique protocol developed for extraction of thraustochytrid cellulases.
 Interpreting the biodiversity of actinomycetes genera in marine salterns of Goa.
 A novel multiple polysaccharide degrading bacterium belonging to *Microbulbifer* genus isolated from Carlsberg Ridge.
 Potential anti-bacterial compounds against clinical pathogens from hypersaline actinomycetes.
 Extraction of toxins from marine organisms.
 Dihydropyrimidin-2(1H)-ones/thiones were synthesized and demonstrated to have anti-diabetic activity.
 Biotechnologically important proteases and xylanases from coastal and deep sea bacterial and fungal isolates
 Study of marine algae as a source of nutraceuticals
 Lipases, proteases and polysaccharases from Thraustochytrids
 Alkaloids of medicinal value from plants
 Algal biofuel
 Potential anti-fungal compounds from halotolerant bacteria.
 Leaf and root extracts from *Grewia nervosa* were demonstrated to act as novel starch blockers and depicted anticancer property.
 Extraction and study of lectins from marine algae
 Use of salt pan bacteria as a biofertilizer in paddy fields is under exploration.
 Evaluating the production of potential of tyrosinase inhibitors from hypersaline bacteria.
 Biotechnological degradation of oil spills and tar balls by means of selective marine microbial consortia developed for marine pollution control
 Establishment of methods to study the risk assessment of recombinant DNA in controlled marine conditions

Increment to Infrastructure:

Cyber Scan pH meter 700
 Horizontal Laminar Air Flow
 Shimadzu -Aux Analytical balances
 Eppendorf centrifuge
 Sorvall Lyx 4000 centrifuge
 Frost Free Refrigerators (2 nos)
 Convection (IFB 30 litres) Microwave oven
 Visi cooler (Voltas)
 BOD Incubator
 Refrigerated circulation water bath ,Water Bath - rectangular

Ongoing and completed projects during 2013-2014

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)	Project type
Kerkar, S.	Ongoing	Purifier water analysis for total coliforms and TDS	Eureka Forbes	0.24	Consultancy , minor
Kerkar, S.	Ongoing	Impact of tourism on estuarine water quality and its effect on mangrove and saltpan ecosystems of Goa	DSTE, Govt. of Goa	19.55	Minor
Muraleedharan, U.D.	Ongoing	Biogeochemical Studies of the Arabian Sea and the effect of Riverine Inputs from the Mandovi- Zuari system along the West Coast of India (under the National GEOTRACES programme)	MoES (Govt. of India)	64.00	Major

Seminars, conferences, workshops, etc., organized:

Programme	Dates	Major Sponsors
DST-INSPIRE Internship Science Camp for outstanding students of XI Standard	17-21 Feb 2014	DST (Govt. of India)
ASM Workshop on Art of Science Communication	06 Dec 2013	American Society for Microbiologists
National Symposium on Biotechnology in India : a Panoramic view	25-26 Feb 2014	(Only through goodwill of Departmental Alumni and registration fee collection)

Research publications

Articles in journals: (*SCI Publications)

- Kerkar, S.; Fernandes, M.S. A comparative assessment of Goan natural solar salt and its adequacy in iodine content and nutritive value. *International Food Research Journal*. 20(5); 2013; 2317-2321.
- *Sahu, T.; Bisht, S.S.; Das, K.R.; Kerkar, S. Nanoceria: Synthesis and biomedical applications. *Current Nanoscience*. 9(5); 2013; 588-593.

- Meena, S.N.; Ghadi, S.C.; Janarthanam, M.K. Evaluation of medicinal properties of *Grewia nervosa* (Lour.) Panigrahi. *International Journal of Pharma and Bio Sciences*. 4(4); 2013; 821-828.
- Meena, S.N.; Ghadi, S.C.; Janarthanam, M.K. Evaluation of medicinal properties of *Grewia nervosa* (Lour.) Panigrahi. *International Journal of Pharma and Bio Sciences*. 4(4); 2013; 821-828.

Articles in books, conference proceedings:

- Kamat, T.K.; Kerkar, S. Significance of marine salt pans as imminent source of bioactive secondary metabolites. *Proc. Int. Conf. Environment, Health and Industrial Biotechnology (BioSangam)*. Dept. of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, India. 2013; 165-168.

PhDs students:

Degree awarded:01 Students on roll:18

Placement details: 08

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Ghadi, S.C. Bridging the gap between Genetics and Technology. Regional Science Congress, N.V.S. Pune Region. Jawahar Navodaya Vidyalaya, Canacona, South Goa. 14-19 Nov 2013.
- Kerkar, S. Impact of development activities on Goa's coastal ecology (Invited lecture). Centre for Environment & Natural Resource Management. International Centre, Goa. 27 Jul 2013.
- Kerkar, S. Exploration of the Arctic for biodiversity. DBT-JRF Regional Meet (Western Zone). ICT, Mumbai. 21-22 Nov 2013.

Conference presentations

- Ballav, S.; Kerkar, S. Hypersaline actinomycetes: an unique microbial community as producers of a plethora of anti-microbial compounds from marine salterns. Nat. Symp. Biotechnology in India: A panoramic view. Goa University, Goa. 25-26 Feb 2014.
- Bartakke, A.; Kerkar, S. Assessment of plant growth promoting activity of saltpan bacteria. Nat. Symp. Biotechnology in India: A panoramic view. Goa University, Goa. 25-26 Feb 2014.
- Bhambure, A.B.; Fernandes, M.S.; Kerkar, S. Biofilm Associated Hypersaline Bacteria as Potential Biofertilizers for Saline Soils. Int. Conf. Environment, Health and Industrial Biotechnology (BioSangam-2013). Dept. of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, UP. 21-23 Nov 2013.

- Das, K.R.; Fernandes, M.S.; Kerkar, S. An Anaerobic *Haloanaerobium* sp. as an effective bioremediator to stabilize metal pollution in water. Int. Conf. Health, Environment and Industrial Biotechnology (BioSangam-2013). Dept. of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, UP. 21-23 Nov 2013.
- Das, K.R.; Kerkar, S.; Attri, K. Cytotoxic effect of nano-magnetite on *Haloanaerobium* sp.. Int. Conf. Nanotechnology in the Service of Health, Environment & Society (NanoSciTech 2014). Panjab University, Chandigarh. 13-15 Feb 2014.
- Devasia, V.L.A., Kanchana, R., Shirodkar, P., Muraleedharan, U.D. Hydrolytic enzymes from Thraustochytrids: Commercial potential? Int. Conf. Health, Environment and Industrial Biotechnology (BioSangam-2013). Dept. of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, UP. 21-23 Nov 2013.
- Imran, Md.; Ghadi, S.C. Cloning of agarase gene from a multiple polysaccharide degrading bacteria, *Microbulbifer* strain CMC-5. DBT-JRF Regional Meet at Institute of Chemical Technology, Mumbai. . 21-22, Nov 2013.
- Kamat, T.; Kerkar, S. Significance of marine salt pans as imminent source of bioactive secondary metabolites. Int. Conf. Health, Environment and Industrial Biotechnology (BioSangam-2013). Dept. of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, UP. 21-23 Nov 2013.
- Kerkar, S. *Chromohalobacter beijerinckii*: A Potential Bioremediator of Mn from hypersaline Marine Salterns. Int. Conf. Health, Environment and Industrial Biotechnology (BioSangam-2013). Dept. of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, UP. 21-23 Nov 2013.
- Pereira, F.; Kerkar, S. Bioremediation: An ultimate approach for metal contamination in hypersaline environment. Nat. Symp. Biotechnology in India: A panoramic view. Goa University, Goa. 25-26 Feb 2014.
- Shirodkar, P., Devasia, V.L.A., Muraleedharan, U.D. Multiple polysaccharase activities in Thraustochytrid isolates. Nat. Symp. Biotechnology in India: A panoramic view. Goa University, Goa. 25-26 Feb 2014.
- Vasisth, P.; Ghadi, S.C. *Microbulbifer mangrovi* sp. nov., a multiple polysaccharide degrading bacterium from Goa mangrove. Nat. Symp. Biotechnology in India: A panoramic view. Goa University, Goa. 25-26 Feb 2014.

2.5: Faculty of Management Studies

Departments and Degrees:

Department of Management Studies: (M.B.A., M.Phil.,Ph. D.)

FACULTY BOARD

Dean, Faculty of Management Studies

Head, Department of Management Studies

Dr. Purva G. Hegde Desai

Dr. R. Nirmala

Dr. Nilesh Borde

Chairman (Ex-Officio)

Member (Ex-Officio)

Member

Member

Member

Department of Management Studies

Faculty:

Full-time

Nandakumar Mekoth, Ph.D., Professor - Marketing

M.S. Dayanand, Ph.D., Associate Professor and Head - Marketing and Tourism

Purva Govind Hegde-Desai, A.C.A., Associate Professor - Finance, Marketing

R. Nirmala, Ph.D., Assistant Professor - Human Resources/ OB

Nilesh Borde, Ph.D., Assistant Professor - Finance

Major Thrust Areas and Achievements:

The department has major thrust areas in Tourism, Business Management and Management of Small Enterprises. These thrust areas find audience in the Bachelor's Programmes, Masters Programme and the Research Programmes offered by the Department. The Verticals are in the areas of Tourism, Small Enterprise Management, Finance, Banking, Consumer Behaviour and Human Resources. It also includes aspects associated with research in Organizational Behaviour, Leadership and Organisational Development.

The Department successfully started the M.Phil. programme in Management and had 4 students registered for the programme.

Projects

Project Investigator	Status	Title	Funding agency	Grant (Rs. In Lakhs)
Nirmala, R.	Completed	Mapping Career Paths of Business school alumni - Case studies	UGC	0.68

Seminars, conferences, workshops, etc., organized:

Programme	Dates	Funding
Workshop on Research Methodology	3-4 Jan 2014	Self funded
Workshop on Microsoft Excel and Powerpoint	24 Apr 2014	Self funded

Research publications:

Articles in journals (in SCI Journals)*

- DeSouza, M.F.; Hegde-Desai, P. Models of justice in service recovery efforts in airline industry. *American Journal of Economics*. 3(6); 2013; 330-335.
- Noronha, A.M.; Mekoth, N. Social support expectations from healthcare systems: Antecedents and emotions. *International Journal of Healthcare Management*. 6(4); 2013; 269-275.
- PankajKumar; Nirmala, R. Implementing performance management systems in organisations. *Acme Intellects International Journal of Research in Management*. 4(4); 2013; 82-91.

- Angle, S.K.; Nirmala, R. Many facets of employee engagement. *Anushandhan, Interdisciplinary Research Journal*. 4(1); 2014; 43-56.
- Sankaranarayanan K.G.; Mekoth, N. Positioning a second buy: Lessons from nano. *Radix International Journal of Research in Marketing*. 3(6); 2014; 1-12.
- Sony, M; Mekoth, N. The dimensions of frontline employee adaptability in power sector: A grounded theory approach. *International Journal of Energy Sector Management*. 8(2); 2014; 240-258.

Articles in books, conference proceedings:

- Gomes, N.; Nirmala, R. A study of Indian Management Styles. 4. *Int. Conf. India at the Cross Roads: The Way Ahead*. Indus Business Academy, Greater Noida. LexisNexis (a division of Reed Elsevier India Pvt. Ltd). 2014; 672-679.
- Nirmala, R.; PankajKumar. Human Resource Management Practices creating High Performance Work-place: Literature Review. *Global Advances and Innovation in IT and Management*. Ed. by: S.S. Bhakar, ShailjaBhakar, NitinPaharia, GauravJaiswal, RavinderPathak. Bloomsbury, New Delhi. 2014; 352-365.

PhDs:

Degrees awarded:01 Thesis submitted:01 Students on roll:24

Placement details:40

Invited Lectures, Conference Presentations, etc.

Invited Lectures

- Hegde-Desai, P.G. Communications and presentation skills. *Training Programme for Women Scientists*. IMTR, Margao. 12 Dec 2013.
- Hegde-Desai, P.G. Time and stress management. *MDP for Improving Organisational Performance*. National Productivity Council. 21 Dec 2013.
- Hegde-Desai, P.G. Time and stress management. *Managerial Effectiveness Program*. IMTR, Margao. 16 Jan 2014.
- Hegde-Desai, P.G. Case writing. *New Trends and Experiences in HRD*. IMTR, Margao. 18 Feb 2014.
- Hegde-Desai, P.G. Case writing. *Managing Change in Government Organisations*. IMTR. 6 Mar 2014.
- Hegde-Desai, P.G. Importance of Research, Types of Scales and Hypothesis framing. *Research Methodology Workshop*. Sri Sri Institute of Management Studies, Margao. 4 Apr 2014.
- Nirmala, R. Essentials of Management. *GMCS program*. Institute of Chartered Accountants of India. Jul 2013.
- Nirmala, R. Motivation Theories. *Indian Forest Officers Orientation*. IMTR (Institute of Management Training & Research). 20 Sep 2013.

- Nirmala, R. Motivation. *Managerial Effectiveness Programme for the Scientists of the Govt. of India*. IMTR. 15 Jan 2014.
- Nirmala, R. (i) Stress management; (ii) Time management. *Stress and Time Management Programme*. ITMS, New Delhi. 18-19 Feb 2014.
- Nirmala, R. Mentoring and employee engagement. *New Trends and Experiences in HRD*. IMTR. 20 Feb 2014.
- Nirmala, R. Resistance to Change. *Managing Change in Government organisations*. IMTR. 4 Mar 2014.
- Nirmala, R. Personal effectiveness. *87th Orientation Programme*. UGC Academic Staff College, Goa University. 3 Apr 2014.
- Nirmala, R. Personal effectiveness. *88th Orientation Programme*. UGC Academic Staff College, Goa University. 4 Apr 2014.
- Dayanand M S. Keynote Speaker at the International Conference INVTUR 2014, May 6th to 8th, 2014 at Universidade de Aveiro, Portugal.

Conference presentations:

- Fernandes, W.; Nirmala, R. Work stress, coping and expectations of nurses. *SDMIMD 2. Int. Conf. Managing Human Resources at the Workplace*, Mysore. 13-14 Dec 2013.
- Hegde-Desai, P.G.; Sardesai, S. Role of Government as a promoter in the tourism sector and its impact on stakeholders. *Int. Seminar: Globalization of Tourism: Opportunities and Challenges*. Narayan Zantye College of Commerce, Bicholim, at Panaji, Goa. 2 May 2014.
- Mekoth, N. Host Perceptions of Tourism Impact and support for Tourism. *Int. Seminar: Globalization of Tourism: Opportunities and Challenges*. N. Zantye College of Commerce, Bicholim. 2-3 May 2014.
- Mekoth, N. Consumers willingness to pay based on Gender, Brand reputation and Involvement in cause related marketing. *Int. Conf. Innovations, changes and Challenges in Management*. Global Open University, Nagaland and Int. Assoc. of Academicians and Researchers. 29 May 2014.
- Mekoth, N. The influence of demographic variables on social support expectations from health care systems. *Int. Conf. Innovations, changes and Challenges in Management*. Global Open University, Nagaland and Int. Assoc. of Academicians and Researchers. 29 May 2014.

2.6: Faculty of Commerce

Departments and Degrees:

Department of Commerce - M.Com., MBA (Financial Services), M.Phil., Ph. D.

FACULTY BOARD

Dean, Faculty of Commerce	Chairman (Ex-Officio)
Head, Department of Commerce	Member (Ex-Officio)
Prof. B. Ramesh	Member (Ex-Officio)
Prof. Y. V. Reddy	Member (Ex-Officio)
Dr. G. A. Devi Raju	Member
Dr. K. B. Subhash	Member
Dr. Sriram Padyala	Member

Department of Commerce

Faculty:

Full-time

Y.V. Reddy, Ph.D., Professor and Head - Finance and accounting

B. Ramesh, Ph.D., Professor - Accounting, finance, capital market studies (functional areas), Entrepreneurship, SMEs, Tourism Sector

G. Anjana Devi Raju, Ph.D., Professor – Accounting, finance and capital market studies

K.B. Subhash, Ph.D., Professor – Finance, Entrepreneurship, and Tourism

P. Sri Ram, Ph.D., Assistant Professor - Finance, Accounting, Taxation

Temporary

Pournima S.S. Dhume, Assistant Professor

Poornima B.G., Assistant Professor

Kaustubh Kamat, Assistant Professor

Varsha Ingalhalli, Assistant Professor

Major Thrust Areas and Achievements:

Accounting and Finance, Financial Services, Entrepreneurship Studies, Tourism and Hotel Management Studies.

Seminars, conferences, workshops, etc., organized:

Programme	Dates	Funding
Workshop on Econometrics for M.Phil and Ph.D. Research Scholars	Jan-Apr 2014	Self support
Seminar on Capital Markets Investors Protection Fund	27 Mar 2014	Bombay Stock Exchange

Research publications:

Articles in journals (in SCI Journals)*

- Anjana Raju, G.; Mythili, K. SME securitization: A new ray of hope for SMEs in India. *Journal of Structured Finance*. 19(2); 2013; 89-119.
- Kamat, K.; Sanzgiri, S. Factors influencing attitude towards entrepreneurship: An empirical study among graduate and post graduate students in Goa. *International Journal of Business, Management & Social Science*. 3(9)(1); 2014; 91-94.
- Naik, R.; Reddy, Y.V. Study of investor behavior among investors in Pernem taluka of Goa. *Radix International Journal of Social Science*. 2(7); 2013; 1-18.
- Naik, S.S.; Reddy, Y.V. Structuring the prediction model of export performance of selected Indian industries: A comparative analysis. *Open Access Scientific Reports*. 2; 2013; 667-.
- Ramesh, B.; Dhume, P.S.S. Market Timing Ability of Fund Managers – Indian Experience. *Indian Journal of Commerce*. 67(1); 2014; 1-15.

- Ramesh, B.; Mendes, S. Contribution of women entrepreneurs in unorganized sector of Goa (special reference to beauty parlors in Goa). *Platinum*. 65-67.
- Reddy, Y.V.; George, R. Corporation tax in India: The road travelled so far. *Decision, IIMC, Kolkata*. 40(3); 2013; 213-221.
- Sanzgiri, S.S.; Reddy, Y.V. Women entrepreneurship culture: An Indian scenario. *Indian Journal of Management*. 3; 2013; 42-47.
- SriRam, P. Examining the Performance and Relationship between the Bank ETF's and their Underlying Index in India. *International Journal of Management and Economics*. 1(11); 2014; 39-50.
- SriRam, P. Commodity Risk Management – Hedging as a tool: Empirical Evidence of Indian Commodity Market. *Inspira: Journal of Modern Management and Entrepreneurship*. 4(2); 2014; 279-294.
- SriRam, P. Empirical Evidence of Price Based Auction of Treasury Securities in Indian Bond Market. *ARASH: A Journal of ISMDER*. 4(1&2); 2014; 66-74.
- Rane, A.; AnjanaRaju, G. Impact of dividend announcement on stockholder's return: An empirical analysis of Indian banking sector. *International Journal of Business, Management & Social Sciences*. 3(8); 2014; 64-70.
- Reddy, Y.V.; Wagle, N.S.; Naik, M.S. Performance evaluation of gold exchange funds listed on NSE. *Amity Case Research Journal*. 3; 2014; 60-65.

Articles in books, conference proceedings:

- Ramesh, B.; Mendes, S. Corporate Social Responsibility – Perspectives in Indian context. *Ethics & CSR Emerging Issues and Challenges, Proc. Int. Seminar on Ethics and Corporate Social Responsibility: Emerging Issues and Challenges, 8-9 Mar 2014*. Pune.IGCCIA; 2014; 56-62.
- Subhash, K.B.; Weiermair, K.; Chen, R. Dynamics of venture capital: Transformational strategy for promoting rural tourism. *A social venture capital and micro financing perspective. Contemporary Trends in Tourism and Hospitality Management, Ed. By: Ashok Aima, Vinay Chauhan, and Jaya Bhasin*. Primus Books, New Delhi, India. 2014; 161-181.

PhDs:

Degrees awarded: 01

Students on roll:26

Placement details:10

Invited Lectures, Conference Presentations, etc.

Invited Lectures:

- Ramesh, B. Impact of Liberalization. *Nat. Conf. Globalization and Privatization on Socio-Economic Development in India*. Vinayakrao Patil Mahavidyalaya, Vaijapur, Aurangabad, Maharashtra. 12-13 Apr 2014.

Conference presentations:

- AnjanaRaju, G. Is Indian Stock Market ready for Transition in the 21st Century for Gen Y. 66. ICA Conf., Bangalore, 5-7 Dec 2013.
- AnjanaRaju, G. Does Second Generation Economic Reforms remain Greek for Aam Admi? 66. ICA Conf. Bangalore, 5-7 Dec 2013.
- AnjanaRaju, G. Impact of Dividend Announcement on stock holder's return – An Empirical Analysis of Indian Banking sector. Anjuman College and PG Centre, Bhatkal, Karnataka held by Indo Global Chamber of Commerce, Industries and Agriculture (IGCCIA). 13 Apr 2014.
- Dhume, P.S.S.; Ramesh, B. Market Timing Ability of Fund Managers – Indian Experience. 66. All India Commerce Conf. Department of Commerce, Bangalore University, Bangalore. 5-7 Dec 2013.
- Kamat, K.; Sanzgiri, S. Factors influencing attitude towards entrepreneurship: An empirical study among graduate and post graduate students in Goa. Int. Conf. Adv. Trade, Commerce, Social Sciences, Management, Engineering and Hospitality. Indo-Global Chamber of Commerce Industries and Agriculture; Faculty of Management Sciences, Pune. 10-11 May 2014.
- Poornima, B.G.; Reddy, Y.S.; Reddy, Y.V. Are Sensex Futures Riskier than SENSEX. 1. Int. Conf. Business Analytics and Intelligence. IIM, Bangalore. 11-13 Dec 2013.
- Varsha, I.; Poornima, B.G.; Reddy, Y.V. A Study on Dynamic Relationship Between Oil, Gold, Forex and Stock Market in the Indian Context. 1. Int. Conf. on Business Analytics and Intelligence. IIM, Bangalore. 11-13 Dec 2013.

2.7 Centre for the Study of Social Exclusion and Inclusive Policy (CSSEIP)

Faculty:

N. Shyam Bhat, Ph.D., Professor and Coordinator (*Additional Charge*) - Modern Indian History and History of South Kanara

Full-time

Vijay M. Gawas, L.L.M., Assistant Professor and Assistant Director - Human Rights, Constitutional Law of India and Tribal Studies.

Major Thrust Areas and Achievements:

The Centre for the Study of Social Exclusion and Inclusive Policy promotes interdisciplinary research on the varied forms of social marginality, and the inclusive policies and programmes. It studies issues relating to the dynamics of discrimination and exclusion, caste and differently-abled with an active commitment to furthering democratic practices. It aims at analyzing the policies for protecting the rights of these groups and eradicating the problem of exclusion and discrimination. The Centre organizes conferences, seminars and symposia on the theme of social exclusion and inclusive policy.

Research publications:

Articles in Books, Conference Proceedings:

- Gawas, V. Goa state scheduled tribe communities' development – A draft policy. *Tribal Development: Issue, Challenges & Perspective, Vol. 2, Ed. by: Hement Kothari; P.S. Bhatnagar.* Udaipur Pacific Institute of Tribal Development (Rajasthan). 2014; 138-147.

Invited Lectures, Conference Presentations, etc.

Conference presentations:

- Gawas, V. Law and social justice and social exclusion in Goa. *Nat. Conf. on Social Exclusion and Inclusive Growth: Challenges and Strategies.* Dept. of Social Work, Mangalore University, Mangalagangothri, Karnataka. 6-7 Feb 2014.
- Gawas, V.; Velip, M. Subaltern approach to the history of Goa: Themes and issue. *Tribes of Goa: Their institution and movement. 18. Local History Seminar,* 6-7 Mar 2014. Department of History, Goa University; Directorate of Archives and Archaeology, Govt. of Goa.

2.8 Innovative Programs

2.8.1 Research Development & Resources Mobilisation Cell (RDRM)

Research and Development Projects and Consultancies are carried out by the faculty members of Goa University. These projects are funded by various organisations such as Council of Scientific & Industrial Research (CSIR) New Delhi, Department of Science & Technology (DST), Govt. of India, University Grants Commission (UGC), New Delhi, Ministry of Earth Sciences (MoES), New Delhi, Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, Atomic Energy Regulatory Board (AERB) Mumbai, Department of Biotechnology (DBT), New Delhi, All India Council for Technical Education (AICTE), New Delhi, Department of Science, Technology & Environment, Goa (DSTE), NIO, Dona Paula, Goa, Ministry of Environment and Forests (MoEF), New Delhi, Indian Space Research Organisation (ISRO), Bangalore, Naval Research Board, (NRB), New Delhi, Directorate of Planning, Statistics & Evolution (DPSE), New Delhi, Board of Research & Nuclear Sciences (BRNS), Mumbai. In addition, Science Departments of the University received research grants under Special Assistance Programme (SAP) of UGC and Funds for Infrastructure in Science & Technology (FIST) of DST.

In the year 2013-14, ten sponsored projects and six consultancy projects were sanctioned to the Departments of Chemistry, Physics, Botany, Microbiology, Marine Sciences, Biotechnology, Geology, Zoology, Computer Science and Technology, French, History, Economics and Centre for Women's Studies.

Faculty In-Charge: Menon H.B., Dept of Marine Sciences

2.8.2 Remote Sensing Laboratory (RSL)

A Remote Sensing Laboratory has been established with financial assistance from Indian Space Research Organisation (ISRO). The facilities of the laboratory include hardware consisting of five computers and software necessary for image processing. Image processing package such as ERDAS IMAGINE has been procured. An interdisciplinary course has been introduced across the different faculties where remote sensing technique has application. The laboratory provides hands on training to students who opt for interdisciplinary course on remote sensing and research and thus cater to the county's need for trained manpower in this field. All the instruments necessary for in-situ observations of radiance and irradiance, spectrophotometer for analysing the optically active constituents from samples and sunphotometer for measuring aerosol optical depth have also been procured. At present there are many R&D projects funded by different agencies like Naval Research Board, Space Applications Centre, Space Physics Laboratory of VSSC, ISRO and Indian National Centre for Ocean Information Service of Ministry of Earth Sciences, Delhi. All these projects are carried out by Department of Marine Sciences for which the laboratory has been used extensively.

Co-ordinator : Menon H.B., Dept of Marine Sciences

2.8.3 Study India Programme (SIP):

The SIP Programme is offered to a group of foreign students wanting to pursue study in India to earn credits. The Universities/institutions desirous to send a batch consisting not less than five students are required to contact the SIP Coordination Committee to prepare and sign a Memorandum of Understanding containing the course outline, time-schedule, credit transfer, and fee structure. The MOU is a prerequisite for launching the SIP. The University does not entertain inquiries of students not supported by their respective universities/institutions.

Co-ordinators: Somayaji G., Department of Sociology, Tripathi R. Department of Political Science. Contact e- mails: ganesh@unigoa.ac.in , rmt@unigoa.ac.in

2.8.4 Extra Mural Studies and Extension Services(EMS & ES)

The Board of EMS & ES was set up for a period of 3 years.

The following activities were held in various schools/villages in Goa during 2013-14
Specially made mass education film with live commentary by Prof B S Mohite of Shivaji University, Kolhapur.

Workshop on water harvesting by Department of Earth Sciences, Goa University

Demonstrations workshops and talks by Shri Ramchandra(Somu) Rao on FEAR OF THE UNKNOWN at various schools

Workshop on Problems during adolescence by Dr Rupesh Patkar and Dr Archana Gaonkar in various schools

Workshop on environment conservation by noted environmentalist Rajendra Kerkar

Mass Education Programme using film show in Goa

S.No.	Date & Time	Place
1	11/2/2014 10.30 am	Holy Cross Institute, Quepem
2	11/2/2014 2.30 pm	Damodar Higher Secondary School, Gudi, Paroda
3	12/2/2014 10.30 am	Govt High School, Morlem, Sattari
4	12/2/2014 4.00 pm	Vivekanand Environment Brigade, Keri Sattari
5	13/2/2014 10.30 am	Sharada English High School, Marcela

Mass education programme on natural calamities using film show and live commentary by Professor B. S. Mohite, Associate Professor, Dept of Chemistry, Shivaji University were held in various parts of Goa from 11th February to 13th February, 2014. On 11/2/2014, programme was held at Holy Cross Institute, Quepem and Damodar Higher Secondary School, Gudi, Paroda. On 12/2/2014 at Govt High School, Morlem, Sattari and Vivekanand Environment Brigade, Keri Sattari. On 13/2/2014 at Sharada English High School, Marcela. Prof Mohite showed the films made by him on various natural calamities such as Earthquake, Floods and tsunami while providing a live and interactive commentary.

Prof Mohite has a PhD from IIT Bombay and has been conducting such programmes in various parts of India. He also demonstrated the technique developed by him in

synthesizing large sized designer crystal artifacts in the laboratory set by him. He has been able to synthesize some of the largest crystal based models using household items and normal water in the fastest possible time. His films on global warming, space missions, earthquake and Tsunami were appreciated by student community and environmental activists from Goa. Noted environmentalist Rajendra Kerkar organized his programme for the benefit of activists of Vivekanand Environment Brigade at Keri-Sattari. Dr Uday Gaonkar and his colleagues organized the event at Shri Damodar Higher Secondary School, Gudi, Paroda, Mr Sanjay Talwadkar and his colleagues organized the event at Holy Cross Institute, Quepem while Laxmi Sukhthankar, Headmistress of Govt School, Morle Colony helped in organizing the event at Govt School, Morlem. Headmaster of Sharada School, Marcela Shri Borkar and teacher Prakash Nayak conducted the programme at Sharada School, Marcela.

A workshop on Water Harvesting by faculty(2) and students (about 25)of Dept of Earth Sciences was organized at Vividha Higher Secondary School, Navelim, Sanquelim Goa on 8th March, 2014. This involved a street-play, poster exhibition and interaction with students. This activity has been carried out in previous years at other locations under the board and has been highly appreciated by all.

Other workshops conducted by following resource persons at various schools/organizations were as follows-

Demonstrations workshops and talks by Shri Ramchandra(Somu) Rao on FEAR OF THE UNKNOWN at various schools

Workshop on Problems during adolescence by Dr Rupesh Patkar and Dr Archana Gaonkar in various schools

Workshop on environment conservation by noted environmentalist Rajendra Kerkar

Schedule of Programmes conducted at various schools/organizations

S.No	Name of the Resource Person	Date	Venue	KMs	Amount/Taxi Bill
1	Dr Rupesh Patkar & Archana Gaonkar	17/02/2014	LHBD School, Thane, Sattari	158	1896.00
		19/2/2014	Govt High School, Surla, Sattari	185	2220.00
		22/2/2014	Govt High School, Sadolxem	198	2376.00
		24/2/2014	Govt High school, Srishtal	195	2340.00
		26/2/2014	Saraswati High School, Juvem	100	1200.00
				Total	10032.00

2	Ramchandra (Somu) Rao	27/1/2014	Peter Alvares High School, Morjim	101	1515.00
		13/2/2014	Guardian Angel Higher Secondary, Sanvordem	130	1950.00
		18/2/2014	Govt. High School, Thane, Valpoi	128	1920.00
		28/2/2014	SS Angle Higher Secondary, Mashem	194	2910.00
		13/3/2014	Govt. College, Pernem	69	1035.00
		15/3/2014	Jaycess Women's empowerment week, Vasco	84	1260.00
				Total	10590.00
		18/02/2014	Govt High School, Netravali	176	1056
3	Rajendra Kerkar				
		20/03/2014	Govt High School, Surla	56	336
		22/03/2014	Vivekanand Prerana Pratisthan, Keri	0	0
		25/03/2014	Govt High School, Thane	54	324
		28/03/2014	Ideal High School, Pilgao	46	276
			Total	332	1992

A student performing "Miracles" in a workshop by Somu Rao on Fear of Unknown
 Dr Rupesh Patkar talking to boys on Problems of adolescence
 Dr Archana Gaonkar talking to girl students on "Know your body"

Co-ordinator: Ramrao Wagh, Department of Computer Sciences

2.8.5 Earth Science & Technology Cell(ESTC)/Centre of Excellence in Marine Microbiology (CoE)

The Ministry of Earth Sciences (MoES) supports basic and applied research in Ocean and Atmospheric Science and Technology in Universities through establishment of ESTCs. Nine such specific ESTCs have been set up in different institutions of the country that take up projects submitted by Universities, National laboratories and Indian Institutes of Technology, etc. Goa University has been identified to set up one such specific ESTC in the area of Marine Microbiology.

The objectives of the Cell are to strengthen academic and scientific work in the area of Marine Microbiology. The Cell functions under the guidance of the Management Board constituted by Ministry of Earth Sciences, with the Vice Chancellor, Goa University, as the Chairperson and Research Coordinator, ESTC as Member Secretary. The MB meets to discuss, guide and direct the activities of the Cell.

Ongoing projects:

Genotoxicity studies on Field Populations of Commercially important Fin Fishes and Shellfishes of Central West Coast of India. PI - S. K. Shyama.

Studies on phosphate solubilizing halophiles and alkaliphiles from marine and coastal ecosystems as potential biofertilisers for saline soils. PI - Sunita Borkar.

Biological synthesis of metal sulfide and metallic nanoparticles using halophilic Archaeobacteria. PI - Meenal Kowshik.

Publications:

Nayak, P.K.; Mohanty, A.K.; Gaonkar, T.; Kumar, A.; Bhosle, S.N.; Garg, S. Rapid identification of polyhydroxyalkanoate accumulating members of Bacillales using internal primers for phaC gene of *Bacillus megaterium*. *ISRN Bacteriology*. 2013; 2013; Article ID 562014.

Srivastava, P.; Bragança, J.; Ramanan, S.R.; Kowshik, M. Synthesis of silver nanoparticles using haloarchaeal isolate *Halococcus salifodinae* BK3. *Extremophiles*. 2013, 17(5); 821-831.

Srivastava, P.; Kowshik, M. Mechanisms of metal resistance and homeostasis in haloarchaea. *Archaea*. 2013; 2013; Article ID 732864.

Srivastava, P.; Bragança, J.; Ramanan, S.R.; Kowshik, M. Green Synthesis of Silver Nanoparticles by Haloarchaeon *Halococcus salifodinae* BK6. *Advanced Materials Research*. 2014; 938; 236-241.

Coordiantor: Sandeep Garg, Department of Microbiology

2.8.6 Distance Education, Information and Training Infrastructure (DEITI)

As usual DEITI has carried on its activities during the period for all kinds of audio visual productions of various events in the University. The major events include the VRPP lectures by the renowned Speakers and the University annual Convocation. The live telecast of the proceeding of the Convocation was made available by DEITI through University website. The DEITI has been archiving these entire recorded events for future reference.

DEITI has taken up a professional commercial production of the annual '**Kaleidoscope Quiz**' which was telecast on a local TV channel. The twelve episodes of this was produced in four languages, viz., Portuguese, Konkani, Hindi and French where the students of various Higher Secondary Schools in Goa participated.

Fifteen episode of a TV serial '**Chal Pasayek Ya - a Konkani Travel Show**' was also recorded and edited by DEITI. This was telecast on Doordarshan, Panaji and other local TV channel.

In-Charge: M. Chakraborty

2.8.7 Workstation for Mircodata from Census

The initiative to host the Census Data Workstation was taken by Goa University in response to the invitation received from Shri A. K. Wasnik, IAS, Director of Census Operations. The Memorandum of Understanding (MOU) for setting up the workstation was signed by Mr. Mallikarjuna, Joint Director, Directorate of Census Operations, Goa and Prof. V. P. Kamat, Registrar, Goa University and the workstation is established in the Goa University Library building. The objective of setting up microdata station is to permit qualified researchers optimum use of anonymized sample microdata from census for in-depth research. Workstation enables the researchers to have access to micordata which is not published by census. This facility would be available to all including those who are not part of the University system. Workstation does not permit the researchers to take out or copy the data. The researcher would be allowed to process the sample micro data using the software available in the workstation and generate the tables for use. Only computer printout of the tables so generated will be allowed to be taken out of the work station. Workstation has a fully air-conditioned lab with 5 computer terminals and software required to access and process the microdata.

Coordinators: Prof. P.K. Sudarsan, Department of Economics, and Dr. Goapkumar, University Librarian

2.9 National Service Scheme

The enrolment of NSS volunteers begun in the month of July and enrolled 11,052 candidates under all affiliated colleges in Goa. The Planners meeting was held on 30th April 2014. The detail plan of action was prepared and discussed in Programme Officers meeting. The NSS units of all Colleges are doing tremendous work under the guidance of respective Programme Officers of their colleges. The activities are conducted in two ways.

Regular Activities

These are ongoing projects conducted in colleges regularly, they are as follows:

Campus Development

Under Campus development students are involved in physical work carried in and around Campus of respective Institutions.

Anti-pastic awareness campaign

Most of the colleges had taken this project as important for maintaining our environment clean and green. Projects are conducted in different ways such as collection of empty milk bags, distribution of paper and cloth bags to people, cleaning plastic on beaches.

Special Camping Activities

The special camps of all colleges were held in November and December vacations, and all colleges had conducted special camps. The activities conducted in special camps are as follows: Physical work in village or shramadan, Personality development activities to NSS

volunteers, Visit to Age old Homes, Competitions and sports activities to villagers, Talks by eminent speakers to volunteers and villagers, Street plays/ cultural programmes to villagers.

C0-Ordinator: Pradeep Morajkar, St. Xavier's College, Mapusa.

2.10 Visiting Chair Research Professors Programme (VRPP)

Goa University launched the Visiting Chair Research Professors Programme (VRPP) from 2013-14 to bring luminaries in the field of liberal arts & Literature, social and natural sciences, and other fields to the University. The visiting professors will interact with students, deliver lectures, offer courses, and work on collaborative research projects, or stimulate the creation of art installations and music performances with faculty and students. It is hoped that while blurring boundaries between traditional disciplines, the visiting professors will generate a creative environment in learning and contemporary knowledge production practices with their intellectual and aesthetic endeavors.

Under Visiting Research Professorship Programme an eminent academic/ researcher/ practitioner would spend approximately six to twelve weeks at Goa University every year for about three years.

The programme is being supported by Directorate of Art and Culture, Government of Goa through generous grants.

The visiting professorship programme was launched with a lecture by the doyen of Indian historians, Prof Romila Thapar. The lecture entitled "Contours in Reading Early Indian History" was held in the main auditorium in the recently inaugurated New Science Faculty Block (Block-E) of Goa University on Friday, July 5th at 3.30 p.m. Shri Bharat Vir Wanchoo, Hon'ble Governor of Goa presided over the function.

VRPP - Unique features & achievements

- Internationally reputed personalities from India and abroad provide unique opportunity to Goans to interact.
- All courses/workshops/sessions are open to students as well as general public. Over 1000 participants during the first year.
- Integrated into university's choice based curriculum as credit courses.
- Courses are organized not only at University but also in colleges affiliated to university and other locations in Goa.
- A dedicated website to disseminate all information related to VRPP Programme and online registration facility for all courses.
- Goa University formed its own Western Music Choir and performed at prestigious festivals and places through efforts initiated due to VRPP Professors.
- Documentation of Goan culture, social practices.
- Infused the young researchers in Goa with new ideas by engaging in dialogues

- Brought back interest in liberal art, Indian and western classical music & Literature in the young minds
- Most of the sessions videographed and made available on web or local intranet.

VRPP Chairs and Professors appointed under each chair for Year 2013-14

Sl No.	VRPP Chair	Professor
1	DD Kosambi Chair in Interdisciplinary Studies	Madhav Gadgil
		Romila Thapar
		Sudhir Kakar
2	Dayanand Bandodkar Chair in Political Economy	Amit Bhaduri
3	Kavivarya Bakibaab Borkar Chair in Comparative Literature	Ashok Vajpeyi
		Nirmala Jain
		Jeet Thayil
4	Mario Miranda Chair in Art, Fine Art	Orijit Sen
		Jyotindra Jain
5	Anthony Gonsalves Chair in Western music	Santiago Lucardi Girelli
		Mark Troop
6	Nana Shirgaokar Chair in Indian Music	Shubha Mudgal
		Bahauddin Dagar

Coordinators: Alito Siquera (from July 2013 to December, 2013)
Ramrao Wagh (from January, 2014 onwards)

**PART-3:
PH.D AWARDEES AND RANK HOLDERS**

3.1 Ph.D Awardees: Faculty Wise List

FACULTY OF LANGUAGES AND LITERATURE					
Sr No	Candidate Name	Sex	Title	Subject	Guide
1	Ms. Sangeeta Suresh Naik	F	Voices in transit : A Critical study of indian travel Writing	English	Dr. Kiran J. Budkuley
2	Ms. Aarti Rao	F	The Mother Daughter Relationship in the context of the Indian Novel	French	Dr. Edith Melo Furtado
FACULTY OF LAW					
1	Ranjana Beverly Ferrao	F	Enforcing Child Laws Juvenil Justice in Goa	Law	Prof. Marian Pinherio
FACULTY OF NATURAL SCIENCES					
Sr No	Candidate Name	Sex	Title	Subject	Guide
1	Mr. Shrikant Ramesh Naik	M	Preparation, Characterisation and Solid State properties of Garnets and Spinal Ferrites.	Chemistry	Prof. A. V. Salker
2	Ms. Prachi Sriram Torney	F	Domino reactions in organic synthesis	Chemistry	Prof. S. G. Tilve
3	Mr. Mathias Bosco John Lawrence	M	Structural and Optical studies of Polymer Solutions and Hydrogels	Physics	Prof. J. A. E. Desa
4	Ms. Shraddha Prakash Ganorkar	F	Studies of Structural, Magnetic and Transport Properties of Transition Metal Based Double Perovskites	Physics	Prof. P. R. Sarode
5	Ms. Reshma Sada Raut Dessai	F	Porosity Studies of a Ceramic, a Glass and Clay	Physics	Prof. J. A. E. Desa

6	Mr. Manoj Mukund Kothawale	M	Study of Magnetic and Electrical Properties of Ultra-fine Ni-Zn Ferrite Materials prepared by Novel method.	Physics	Prof. R. B. Tangsali
7	Mr. Umesh Babaji Gawas	M	Synthesis and Characterization of Metal Oxide	Chemistry	Dr. V. M. S. Verenkar
8	Mr. Chinmaya Bhat	M	Synthetic Studies of Alkaloids Containing Pyrrolidine and piperidine structural Motifs	Chemistry	Prof. S. G. Tilve
9	Mr. Santosh Yeso Shetgaonkar	M	Chemistry of S-Block metal coordination polymers : Synthesis, Reactivity Characteristics, Spectroscopic and Structural Investigations	Chemistry	Prof. B. R. Srinivasan

FACULTY OF LIFE SCIENCES AND ENVIRONMENT

Sr No	Candidate Name	Sex	Title	Subject	Guide
1	Ms. Shilpa Jagannath Bhonsle	F	Grain Quality Evaluation Chalkiness Formation and Molecular Genetic Diversity studies of Rice Varieties of Goa	Botany	Dr. S. Krishnan
2	Mr. James D'Souza	M	Studies on Arbuscular Mycorrhizal (AM) Fungi in Mangroves of Goa	Botany	Dr. B. F. Rodrigues
3	Ms. Marielou Ferrao	F	Distribution of Pigmented Yeasts in the coastal water bodies of Goa and their potential as producers of B-Carotene	Microbiology	Dr. Sandeep Garg
4	Ms. Sheryanne Velho-Pereira	F	Screening Halorchaeta and halophilic micro-organism isolated from marine organisms for bioactive compounds	Microbiology	Prof. Iren Furtado
5	Mr. Girish Kumar	M	Genetic variation in two tuna species Euthynnus affinis (Cantor) and Auxis thazard (Lacepede) along the Indian Coast	Marine Science	Dr. Maria Rosalia Menezes

6	Mr. Kuldeep Attri	M	Sulfate reducing bacteria and their activity in mangrove swamp of Goa.	Biotechnology	Dr. Savita Kerkar
7	Ms. Teja Gopal-krishna Gaonkar	F	Studies on Siderophore producing Bacteria from coastal Ecosystems and their response to an Aromatic compound (Sodium Benzoate)	Microbiology	Prof. Saroj Bhosale
8	Ms. Mufedah Ahmed Hazea Gazem	F	Sorption of Heavy metal by Marine derived Aspergillus species	Microbiology	Dr. Sarita Nazareth
9	Ms. Valerie Gonsalves	F	Adaptation of Marine-derived fungi to varying salt levels	Microbiology	Dr. Sarita Nazareth
10	Ms. Anumol Shashikumar	F	"Development and Characterization of cell cultures from a few tissues of mud crab scylla serrata"	Zoology	Prof. P. V. Desai
11	Ms. Aruna Patricia Juliet Colaco	F	Screening of Amaranthus tricolor for antidiabetic Activity	Zoology	Prof. P. V. Desai
12	Ms. Karingada Kochu Therisa	F	Neuropharmacological Studies of Epilepsy using crab and Mouse as Models.	Zoology	Prof. P. V. Desai
13	Ms. Sunita Shantaram Mochemadkar	F	Effect of Oxygen Deficiency on Productivity and Plankton Composition in the Arabian Sea	Zoology	Dr. I. K. Pai

FACULTY OF MANAGEMENT STUDIES

Sr No	Candidate Name	Sex	Title	Subject	Guide
1	Ms. Pia Muriel Cardodo	F	Organisational role stress among Medicial Doctors	Management	Dr. R. Nirmala

FACULTY OF COMMERCE

Sr No.	Candidate Name	Sex	Title	Subject	Guide
1	Pournima Dhume	F	Evaluation of the Schemes of Mutual Fund in Indian Context	Commerce	Prof. B.Ramesh

3.2 LIST OF RANKERS

AWARD OF PRIZES, SCHOLARSHIP, MEDALS

AT THE TWENTY-SEVENTH ANNUAL CONVOCATION.

S.No	NAME OF THE CANDIDATE	SUBJECT	AWARD	NAME OF DONOR
FACULTY OF LANGUAGES & LITERATURE				
1	Gaonkar Palia Tukaram	M.A. English	Francisco Correia Afonso Memorial Prize	Mr. A. CorreiaAfonso
2.	Halgekar Vishranti Kallappa	M.A. Hindi	i) Shri Prabhakar Shejwalkar Gold Medal.	i) Shri P.A. Shejwalkar
		M.A. Hindi	ii) Uttaranchal Sanskritic Mandal Goa Prize	ii) Dr. S.N. Lall
3.	Gomes Luis Xavier	M.A. Konkani	Late Shri Dilip Kumar Rayu Prabhu Mhambre Gold Medal	Mrs. P.D. Mhambre
4.	Supriya Subhash Gaonkar	M.A. Marathi	Late Smt. Rukminibai And Late Bapurao Wader Memorial Prize	Dr. Pralhad Wader
5.	Pires Ashtria Gabriela	M.A. French	Venkatesh Govind Sinai Virginkar Prize	Mrs. Vijaya B. Virginkar
6.	Gonsalves Graziella Suzel	M.A. Portuguese	i) Finalistas Do Setimo Ano Do Liceu-1957 Gold Medal	i) Finalistas Do SetimoAno Do Liceu-1957
			ii) Shri Meghashyam Parshuram Deshprabhu Paritoshik	ii) Shri. Prabhakar Deshprabhu
7.	Prabhu Matondkar Surya Shivaprasad	B.A. English	i) Smt. Manju Ghanashyam Nagarsekar Memorial Prize	i) Shri Ghanashyam Anant Nagarsekar
			ii) Late Prof. Jose Carmelo Coelho Prize	ii) Shri J.V. Coelho
8.	Antao Delilah Assumption	B.A. English (Pursuing M.A. Lit.)	Late Prof. Armando Menezes Gold Medal	iii) M/s. George Menezes Associates
9.	Naik Prajoti Alias Diksha	B.A. Konkani	Shri N. D. Naik Scholarship	Shri Pandurang (Bhai) Anant Naik
10.	Ghaisas Shambhavi Madhu	B.A. Marathi	Late Shree Bhaskar Laxmidhar Bhandare Prize.	D.B. Bhandare

FACULTY OF SOCIAL SCIENCES				
1.	Dias Anthia	M.A. Economics	i) Late Dr. G.V. Kamat Helekar Endowment Prize ii) Prof. G.D. Parikh Memorial Scholarship iii) Late Shri Dilip Kumar Rayu Prabhu Mhambre Gold Medal	i) Dr. Ananda Helekar ii) The Secretary G. D. Parikh Memorial Fund iii) Mrs. P. D. Mhambre
2.	Rebello Tracy Antonia	M.A. Sociology	i) Dr. P.R. Dubhashi Award	Dr. P. R. Dubhashi
			ii) Late Shri Dilip Kumar Rayu Prabhu Mhambre Gold Medal (By rotation)	Mrs. P. D. Mhambre
3.	Kandolkar Gauri Krishnanath	M.A. History	i) Dr. Vithal R. Mitragotri Memorial Prize	i) Smt. Daya V. Mitragotri
			ii) Late Shri Anant Ramkrishna S. Dhume Gold Medal	Dr. Ramesh Anant Dhume
4.	Coutinho Tonella Francisca	M.A. - International Studies	Goa University Prize	Goa University
5.	Sawant Dhanashri Tukaram	M.A. - Political Science	Goa University Prize	Goa University
6.	Barreto Maria Fabiola	B.A. Philosophy	Smt. Mirabai Rudraji Sardesai (Vimalatai Usgaonkar) Prize	Shri R. P. Sardesai
7.	Abdullah	B.A. Pol. Science	Prof. G.D. Parikh Memorial Scholarship	The Secretary, G.D. Parikh Memorial Fund.
8.	Nayak Ameya Avadhut	BA	Lions Club of Margao Silver Jubilee Scholarship	President, Lions Club of Margao
9.	Karapurkar Ila Damodar	B.A. Economics	Dr. R.K. Hazari Memorial Award	The Director, M/s. Sesa Goa Ltd.
10.	Coelho Joy Jennifer	B.A. Pol.Sci/History / Sociology	Late Shri Peter Alvares Endowment	Shri C. G. Palekar

FACULTY OF NATURAL SCIENCES				
1	Mashelkar Karishma Kishor M.Sc. Organic Chemistry		i) Xth Indian Council Of Chemists Conference Prize	i) The Secretary, Indian Council of Chemists.
			ii) Prof. S.K. Paknikar Research Educational Trust Endowment	ii) The Secretary, Prof. S. K. Paknikar
2.	Gupta Ranjana Maineger	M.Sc. Inorganic Chemistry	i) Xth Indian Council of Chemists Conference Prize	i) The Secretary, Indian Council of Chemists
			ii) Francis Simon Cabral Gold Medal	ii) Shri Francis Simon Cabral
			iii) Syngenta Scholarship	iii) Syngenta Institute
			iv) Coca-Cola Gold Medal	iv) Hindustan Coca Cola Bottling
			v) Coca-Cola Prize	v) Hindustan Coca Cola Bottling
3.	Nagvenkar Anjani Pandurang	M.Sc. Physical Chemistry	Xth Indian Council of Chemists Conference Prize	The Secretary, Indian Council of Chemists
4.	Afonso Kimberly Fiona	M.Sc. Earth Science	Prof. F. B. Antao Gold Medal	Chairman, Prof. F.B. Anatao Felicitation Committee
5.	Rao Rashmi Anantha krishna	M.Sc. Maths	i) Finalistas Do SetimoAno Do Liceu-1957 Gold Medal	i) Finalistas Do Setimo Ano Do Liceu-1957
			ii) Prof. D.B. Waghand Hira Wagh Award	ii) Mrs. Yashoda Wagh
6.	Chatim Madhusudan Premanand	M.Sc. Physics	IV SERC School In Physics Gold Medal	Mrs. P. D. Mhambre
7.	Marlon Darius Sequeira	M.Sc. Electronics	IV SERC School In Physics Gold Medal	Mrs. P.D. Mhambre
8.	Annu	M.C.A.	i) Rotary Club of Panaji Scholarship	i) Chairman, Rotary Club, Panaji
			ii) Computer Society Of India Goa Chapter Gold Medal	ii) Chairman, Computer Society of India, Goa Chapter
9.	Phal Dessai Reshmita Ramkrishna	B.Sc.	Lions Club of Margao Silver Jubilee Scholarship	President, Lions Club of Margao
10.	Rane Sanchita Deelipsingh	B.Sc. (pursuing Maths)	i) Late Smt. Laxmi Narayan Shet Narvekar Prize	i) Shri Motiram N. Narvekar
			ii) Shri Yeshwant Govind Kamat Scholarship	ii) Shri M.Y. Kamat
11.	Patil Renu Parsuram	B.Sc. (Physics)-girl student	Tasneem Fazal Gold Medal & Cash Prize	Shri Mohammed Fazal
12.	Sanju Kumari	B.Sc. (Mathematics & Physics)	Eng. Jenardan Upendra Counto & Mrs. Hirabai Jenardan Counto Gold Medal	Shri P.G. Kakodkar

FACULTY OF MEDICINE				
1.	Vilas G.S.	M. D. Anesthesia	Indo-American Anaesthesiology Workshop Commemoration Gold Medal	Dr. R.N. Shetti
2.	Bi Sonam	Dip. In Anaesthesiology	Dr. Pedro Antonio Souza Monteiro Gold Medal	Dr. P.A.S. Monteiro
3.	Kudchadkar Shantata Jayant	M.S. Surgery	i) Late Mrs. Laximibai Raghunath Shirodkar Memorial Prize	Mr. Raghunath S. Shirodkar
			ii) Jindal Jubilee Gold Medal	Technical Director, Jindal Aluminium Ltd
			iii) Dr. Wilfred DeSouza Gold Medal and Scholarship	Dr. Wilfred De Souza
4.	Kamat Gajanan Alias Amey Audhut	MBBS MBBS (Medicine)	i) XXXIV Annual Conference Of The Indian Society Of Gastroenterology Commemoration Gold Medal ii) Late Shri Manohar Narayan Palekar Prize iii) Prof. Srinivas Ranu Sinai Bhobe Prize iv) Late Shri V.M. Salgaocar Memorial Award v) Dr. G.K. Salelkar Memorial Foundation Prize vi) Mr & Mrs. D.J. Soares Rebello Scholarship vii) Doctors Goa USA Prize	i) Dr. C. P. Kapur ii) Shri V. N. Palekar iii) Mr. R. S. Bhobe iv) Dr. J. P. Gomes v) Dr. (Mrs.) U.G. Salelkar vi) Mr. Domingos Jose Soares Rebello viii) M/s. V.M. Salgaocar Foundation Dr. (Lt. Col). S.P. Gunaji
		MBBS (Ophthalmology)	viii) Late Dr. P.R. Gunaji Gold Medal	
5	Dhavjekar Priyanka Priyadarshani Govind	MBBS (Surgery)	Doctors Goa USA Prize	Dr. J.P. Gomes
6	Glory Katiyar	MBBS (Medicine)	Mrs. Shantaben Nagindas Thakkar Memorial Prize	Shri Nagindas H. Thakkar
7	Narkar Rukma Rajendra	MBBS (Obst. And Gynaec.)	Late Smt. R.A. Cardozo E. Gracias Gold Medal	Managing Trustee of Joao Inacio Gracias & Smt. Rosa Aurora Cardozo Gracias Charitable Trust.
8	Shah Ronak Mukundkumar	MDS (Prosthodontics)	Late Dr. Melwyn Nazareth Gold Medal	Mr. & Mrs. Julius A. Nazareth
9	Anita Bishnoi	B.D.S. (Periodontics)	Colgate Gold Medal	Shri Mahender Ashtekar

10	Chodankar Neha Umakant	B.D.S.	Dr. Cristovam Da Gama Barreto Dental Prosthetics Gold Medal	The Wing Com. Cecil Barreto
11	Parera Clita Kamil	B.A.M.S.	i) Shri Dattaram Madhav Amshekar Gold Medal ii) Shri Visvanath Shripad Borkar Gold Medal	Gomantak Ayurveda Mahavidyalaya & Research Centre
12	Kumari Pallavi	B.H.M.S. (Human Physiology)	Dr. Ramesh Anant Dhume Gold Medal	ii) Dr. Ramesh Anant Dhume
13	Shet Ritesh Ratnakar	B.H.M.S. (Organon of Medicine and Homeopathic Philosophy)	i) Dr. B.K. Bose Memorial Gold Medal	Dr. Mohinder Singh Jus
		B.H.M.S.	ii) Shri Kamaxidevi Homeopathic Medical College Shiroda Gold Medal	iii) Principal, Shri Kamaxidevi Homeopathic Medical College
		B.H.M.S. (Medicine)	iii) Dr. P.V. Muzumdar Gold Medal	Dr. K.P. Muzumdar
		B.H.M.S. (Final BHMS Homeopathic Materia Medica)	iv) Late Francis Xavier Monteiro Gold Medal	i) Dr. V.J. Monteiro
14	Pereira Clariza Jacinta	B.H.M.S. (Human Anatomy)	Smt. Ramabai Bhaskar Suria Rau Sardesai Memorial Gold Medal	ii) Dr. Ramchandra Bhaskar Dessai
15	Mayenker Divyata Dasharath	M.Pharm.	Association of Pharmaceutical Teachers of India Gold Medal.	The Indian Pharmaceutical Association, Pilerna Industrial Estate, Bardez, Goa
16	Naik Santoshi	B. Pharm.	Indian Pharmaceutical Association Gold Medal	President, Indian Pharmaceutical Association
FACULTY OF ENGINEERING				
1	Abdar Priyanka Shripati	BE (Information Technology)	Computer Society of India (CSI) Goa Chapter – Gold Medal	Chairman, Computer Society of India, Goa Chapter
2.	Prabhudesai Umakant Alias Sanket Sachin	BE (Mech. Engineering)	i) Late Shri V.M. Salgaocar Memorial Award	M/s. V.M. Salgaocar Foundation
		B.E.	ii) Syngenta Scholarship	Syngenta Institute

3.	Vissa Venkata Eswar Naidu	BE (Civil Engineering)	i) Sumant D. Wagh Memorial Prize ii) Late Shri Joao Inacio Gracias Gold Medal	i) Mrs. Yashoda S. Wagh ii) Managing Trustee of Joao Inacio Gracias & Smt. Rosa Aurora Cardozo Gracias Charitable Trust
4.	Vandna Kumari Puspada	BE (Electronics & Telecom.)	Late Smt. Sushilabai Vasant Sinai Khandeparkar Gold Medal	Shri M.V. Khandeparkar
5.	Ankit Jain	B.E. (Comp. Engineering)	Late Mrs. Laximibai Raghunath Shirodkar Memorial Prize	Mr. Raghunath S. Shirodkar
6.	Amble Saish Chandrakant	B.E. (Electrical & Electronics)	Fomento Gold Medal	Fomento Company
FACULTY OF LAW				
1.	Amonkar Akshaya Anish	LL.M	i) Late Shri V. M. Salgaonkar Gold Medal	i) Dattaraj V. Salgaocar
			ii) Late Hirba Morto Naik Gaunekar Gold Medal	ii) Mrs. Sheela Hirba Naik Gaunekar.
			iii) Nani A. Palkhiwala Trust Gold Medal	iii) Nani A. Palkhiwala Memorial Trust
2.	Dukle Eesha Gajanan	LL.B. (Hons)	i) Late Shri V.M. Salgaocar Gold Medal	i) Dattaraj V. Salgaocar
			ii) Late Adv. H.M.V. Gaunekar Gold Medal	ii) Smt. H.N. Gaunekar
			iii) Shri Narayan Govind Kamat Scholarship	iii) Shri M.Y. Kamat
			iv) Ganaxama Panduronga Sinai Cacodkar And Laxmibai Ganaxama Sinai Cacodkar Gold Medal	iv) Shri P.G. Kakodkar
3.	Pandit Shilpa Shashikant	LL.B. (Hons)	iii) Prof. V. S. Mallar Gold Medal	iii) Shri Gurudas S. Desai
4.	Andrade Anuradha	LL.M. (Legal Theory)	iii) Prof. Dr. V.B. Coutinho Gold Medal	iii) Dr. Saba D'Silva

5.	Santiago S.	LL.B. (Degree)	i) Roque CorreiaAfonso Memorial Prize	Shri A. Correia Afonso
			ii) The Advocate Pandurang Mulgaonkar Prize	Adv. Pandurang Mulgaonkar
			iii) Late Shri V. M. Salgaoncar Memorial Award	M/s. V.M. Salgaocar Foundation
FACULTY OF LIFE SCIENCES & ENVIRONMENT				
1.	Fernandes Maria Cineola	M.Sc. Botany	Late Shri Dilip Kumar Rayu Prabhu Mhambre Gold Medal	Mrs. P.D.Mhambre
2.	Bowalker Dipak Yeshawant	M.Sc. Botany (Advanced Ecology)	C.X. Furtado Gold Medal	Prof. Jose I dos R. Furtado
3.	Shirodkar Pratiksha Chandrakant	M.Sc. Zoology	Zoology Department Gold Medal	Department of Zoology
4.	Praveen Kumar M.K.	Ph.D. Zoology	Zoology Department Prize	Department of Zoology
5.	Gaonkar Sanket Krishnanath	M.Sc. Microbiology	Late Prof. N.C. Nigam Memorial Gold Medal	Dr. Suneela Mavinkurve
6.	Malik Alisha Dnyaneshwar	M.Sc. Marine Microbiology	Goa University Prize	Goa University
7.	Cotta Karishma Berta	M.Sc. Marine Biotech. (Lady student)	i) Late Dr. Leo Mackensen Barros Gold Medal	i) Mrs. Irene Barros & Family
		M.Sc. Marine Biotech.	ii) Satyajit Kerkar Gold Medal	ii) Ms. Savita Kerkar
8.	Esteves Manuel Agnelo	M.Sc. Marine Science	Dr. V.V.R. Varadachari Gold Medal	Dr. V.V.R. Varadachari
9.	Dominic Ann Merin	B.Sc. Zoology	Mr. Vinayak Ghanashyam Sinai Kakodkar Gold Medal	Shri P.G. Kakodkar

FACULTY OF COMMERCE				
1.	Shirodkar Eknath Sagun	MBA (FS)	Late Shri Janardan Gopal Thaly Memorial Gold Medal	Ravindra J. Taly/Dattatraj J. Thaly
2.	Kerkar Puja Paresh	M.Com	i) Jindal Jubilee Gold Medal	i) Technical Director, Jindal Aluminium Ltd.
			ii) Late Miss Kavita Devraj Anand Prize	ii) Mrs. Updesh Anand
			iii) Coca Cola Gold Medal	iii) Hindustan Coca Cola Bottling
			iv) Coca Cola Prize	iv) Hindustan Coca Cola Bottling
3.	Jacques Eden Faye	B.Com.	i) Smt Mirabai Rudraji Sardesai (Vimalatai Usgaonkar) Prize ii) Lions Club of Margao Silver Jubilee Scholarship iii) J.J. Da Cunha Scholarship	i) Shri R.P. Sardesai ii) President, Lions Club of Margao iii) Mr. Domingos Jose Soares Rebello
		B.Com. (Accountancy)	iv) Institute Of Chartered Accountants Of India Gold Medal	Secretary, Committee on Commerce Education & Career Counseling
FACULTY OF MANAGEMENT STUDIES				
1.	Fernandes Maruska Nirmala Perpetua	MBA	i) E.D.C. Gold Medal	i) Managing Director, E.D.C.
			ii) Shrimati Malti Chauhan & Shri Shivdayal Singh Chauhan Memorial Gold Medal	ii) Shri M.S. Chauhan

FACULTY OF DESIGN				
1	Coelho Alisha Toni	B.Arch.	i) Linc Property Gold Medal	Director, Linc Property Developers Limited
			ii)The Indian Institute of Architects Goa Chapter Gold Medal	Chairman, The Indian Institute of Architects Goa Chapter Gold Medal
2	Monica Rymbai	B.Arch.	i) Linc Property Gold Medal	Director, Linc Property Developers Limited
			ii)The Indian Institute of Architects Goa Chapter Gold Medal	Chairman, The Indian Institute of Architects Goa Chapter Gold Medal
3.	Almeida Pereira Erika Maria	B.Arch.	i) Linc Property Gold Medal	Director, Linc Property Developers Limited
			ii)The Indian Institute of Architects Goa Chapter Gold Medal	Chairman, The Indian Institute of Architects Goa Chapter Gold Medal

PART: 4

GENERAL ADMINISTRATION

4.1 General Information

The University has been able to take up construction activity for various works since funds are made available. The major project undertaken and completed is as follows:

Construction of Women's hostel (phase-I) and extension on second floor.

Health centre.

Hostel for Academic Staff College, Ground floor (phase I).

Renovation of Boys Hostel wing 'B'.

Renovation for Intergrated Management Studies.

Construction of 'D' type quarters. (Alternate accommodation)

Gymnasium Building

Construction of store rooms for Sports Building.

Covering of footpaths in University Campus

The following works are in progress:

Construction of Auditorium (Faculty Building)

Renovation of Boys Hostel wing (A).

Hostel of Asc (phase II)

Construction of Cricket ground

The following works being executed by GSIDC

Construction of Science faculty block- E (Commissioned but some balance work to be executed by GSIDC

Bio-incubator (yet to be completed)

Painting, water proofing and maintenance works for various buildings have also been taken up. Parking areas with pavers and interconnecting tiles foot paths were provided.

4.2 Computerisation and IT Infrastructure

The University made an effort to go for total ERP solution with University Management system software. The technical evaluation of various Vendors was completed by a constituted committee. The committee recommended a suitable Vendor for implementation of the solution to the University Authority for consideration.

The Computer Centre prepared a plan for extension of its existing LAN to connect new Academic Staff College building, residential quarters, the newly renovated Men's hostel and also to have an alternate fibre loop on the campus. The order for execution of the plan was submitted to BSNL under NMEICT scheme of Govt of India.

The LAN and internet connectivity of the new science building was successfully completed. The teachers and students started using internet facility for their academic activities.

The Computer Centre upgraded the University's internet Gateway security by acquiring higher end Unified Threat Management System of international standard. The existing Wireless setup was replaced with a Robust Controller based wireless system with encrypted, enhanced radio and beam flex technology. The concentration and reach of wireless signal was boosted by installing more Access Points due to which most of the departments are covered under wireless internet connection.

Conduct of Examinations

The University conducted examinations in 135 Bachelor's Degree programmes, 133 Master Degree programmes and 30 Post Graduate Diplomas programmes during the year 2012-2013.

In Charge: Mr. M.Chakraborty

4.3 Library

The Goa University Library and Information Centre was established in the year 1985. It was then part of the Post Graduate Centre of the Bombay University (CPIR). From its modest collection of books, this library has developed into a huge library with modern facilities.

At present the library has a collection of 155483 books and 9983 volumes of bound journals. The library subscribes to 414 periodicals out of which 138 are foreign journals. The library is getting a large number of periodicals on gratis too.

The library is automated for its routine works and the entire collection is bar-coded. The Library services are being done through an Open Source Integrated Library management Software KOHA. Users can easily get awareness on the availability of books and they can reserve and renew the books themselves through this software. The library also offers access to general reference materials like the Encyclopedia Britannica and Encyclopedia of Science and Technology, World Book Encyclopedia, Oxford English Dictionary.

Library website

The Library website can be accessed at the url www.library.unigoa.ac.in. This website is developed using an Open Source Content Management System Drupal. We have developed a huge Knowledge Portal with it, which links to multifarious information resources on the Internet. All online resources of the library are linked in this page. They include all INFONET Digital Library resources, Encyclopedia Britannica (Academic Edition), Indiastat.Com. We have added 216 e-books on various subjects to our collection. Huge list of online resources are also available in this page.

UGC Infonet Consortia

Goa University Library, being the first phase member of the UGC Infonet Programme, avails the IP authenticated e-journals from the Inter University Centre of the UGC namely the

INFLIBNET Centre, Ahmedabad. Goa University stands at the top most ranks in the usage of these e-journals. The library also has access to the Sci-finder database.

Institutional Repository

The Goa University Library has digitized its 540 thesis and uploaded in the Digital repository created using the Open Source Software DSpace. We have started uploading postgraduate dissertations and grey literature related to the University.

Goa University Library had a major role in the development of Konkani Encyclopedia using the Konkani Vishwakosh published by the University. The entire encyclopedia volumes were digitized and copies are also available in our repository for download.

Browsing facility

Library has 40 computers attached to the Internet, which the faculty and students can use for browsing the net. It has access to the 1GB campus wide connection. The library is also Wi-Fi enabled.

Activities conducted by the library

University Library is in charge of checking research reports for Plagiarism. Students are given help in checking their research reports for Plagiarism. All our PhD thesis being submitted are also subjected to Plagiarism checking.

Goa University Library conducted a short term course in Literature Searching and Academic Writing in collaboration with the UGC Academic Staff College, Goa University. Workshops on Research Methodology and Library Automation were conducted in the Library premises.

Regular Orientation sessions were given to the fresh students of the University.

University Librarian: Gopakumar

4.4 Sports

Students Sports Activities INTER COLLEGIATE CHAMPIONSHIP RESULTS 2013-2014

Sr. No	Event	Men		Women	
		Winners	Runners-Up	Winners	Runners-Up
01	Badminton	S. Caculo	Salgaocar, Miramar	P.C.C.E.	Shree Damodar
02	Table Tennis	Rosary	Shree Damodar	P.C.C.E.	St. Xavier's
03	Judo	Rosary	G. C. Sanquelim.	St. Xavier's	Rosary.
04	Chess	G.M.C.	G. E. C.	-----	-----
05	Cross Country	Rosary	G.C. Quepem	Shree Mallikarjun	G.C. Quepem
06	Weight Lifting	Salgaocar, Miramar	Don Bosco, Panaji	-----	-----
07	Power Lifting	Salgaocar, Miramar	Shree Damodar	-----	-----
08	Best physique	Rosary	CES & Fine Art	-----	-----
09	Football	Rosary	Don Bosco, Panaji	G.C. Quepem	Don Bosco, Panaji
10	Tennikoit	-----	-----	Rosary	CES, Cuncolim
11	Cycling	Rosary	Chowgule	-----	-----
12	Basketball	St. Xavier's	Don Bosco, Panaji	Dhempe, Miramar	G. E. C.
13	Swimming	Shree Damodar	GEC, Farmagudi	Dhempe, Miramar	St. Xavier's
14	Kabaddi	G. C. Pernem.	G.V.M's	Govt. C. Pernem	G.V.M's
15	Tennis	Shree Damodar	Chowgule	-----	-----
16	Athletics	Rosary	Govt. C. Quepem	Govt. C. Quepem	Don Bosco, Panaji
17	Handball	St. Xavier's	Dempo, Altinho	Shree Damodar	Rosary
18	Kho-Kho	Shree Damodar	Rosary	Malikarjun	Govt. C. Quepem
19	Volleyball	Rosary	GEC Farmagudi	St. Xavier's	Rosary
20	Hockey	St. Xavier's	Rosary	Don Bosco, Panaji	St. Xavier's
21	Cricket	Caculo, Mapusa	G.V.M's	St. Xavier's	Zantye
22	Baseball	G.C.Khandola	Dempo, Altinho	St. Xavier's	G. C. Khandola
23	Teakwondo	Shree Damodar	Rosary	Shree Damodar	St. Xavier's

Participation and Performance at Inter University Championships 2012-13

Sr. No	Event	Zone	venue	performance
1	Aquatic for Men	All India	Amritsar	Participation
2	Aquatic for Women	All India	Amritsar	Gold in Diving
3	Taekwondo for Men	All India	Chennai	Indv. Semis
4	Taekwondo for Women	All India	Chennai	Indv. 3 rd Round
5	Chess Open	West Zone	Ahmednagar	Top 15 finish
6	Badminton for Men	West Zone	Kota	Lost in quarters
7	Cricket for Women	West Zone	Gujarat	Lost In Semifinal
8	Judo for Men	All India	Amritsar	Indv. Semis
9	Judo for Women	All India	Amritsar	Participation
10	Football for Men	West Zone	Udaipur	Lost in Qualifiers
11	Table Tennis for Men	West Zone	Aurangabad	Participation
12	Football for Women	West Zone	Jaipur	Runners- Up
13	Football for Women	All India	Hissar	3 rd in Group

Names of Players who represented Goa University at the Inter University Championships 2013-2014

01 Judo (M&W)	Siddharth Kankonkar, Arjun Kadam, Ram Chauhan, Mayur Kolekar, Charlton Vishal Almeida, Sai Prasad Naik, Ruksarbanu Khatral, Brenda D'Sa, Sneha Jadav, Drohini Gaude & Snusha Gawas.
02 Football (W)	Abigail Alvares, Snehalata Thakur, Astrid Pereira, Josline D'Souza, Rovita Fernandes, Salma Fernandes, Jenny Monteiro, Macrenna Dias, Yadna Parwar, Preeti Shinde, Nagpushpa Angadi, Angel S.D. Braganza, Leena Gaunso, Rekha Bhale, Malvita Mascarenhas, Manjita Matkar, Ninoshka Luis, Bethany Remedios.
03 Badminton(M)	Krishnaraj Gauns, Sharmad Mahajan, Aniket Shenai, Kewal Sawant, Amit Kale, Naguesh Naik.
04 Chess Open	Keegan Furtado, Gavrish Kalangutkar, Prabhakar Gawas, Sumant Naik Shirodkar, Umang Kaisary & Dattesh Nagekar.
05 Football (M)	Clemy Bonifacio Dias, Sameer Govenkar, Shubham Malvankar, Manfred Aguiar, Saish Kavlekar, Fredson Marshall, Atish Madkaikar, Denzil Fernandes, Razor Ivor Braganza, Neville Albuquerque, Shane Temudo, Tunard Fernandes, Manfred Rodrigues, Neliston D'Silva, Shubham Rao Dessai, Nikhil Naik, Vhelian Rebello & Sairaj Dhulapkar.

- 06 Cricket (W) Manjushree Bhagath, Harshad Mapari, Nasrim Banu A.R.Nallikun, Elsi Fernandes, Ranjita Gosavi, Gaonkar Bharati, Rupali Parab, Akshaya Shetgaonkar, Naeugi Vaibhavi, Chinmaie Swar, Divya Naik, Roopam Sancoalkar, Selvi Pradhan, Nikita Naik, Sonali Gaundar & Anjali Fatarpekar.
- 07 Taekwondo Salman Shaikh, Alkesh Desai, Mahendra Ananthu, Shashi Kumar, Sagar Palconda, Richard Mascarenhas, Chavan Bharati, Tanvi Gaundalkar & Kenisha Menezes.
- 08 Aquatic (M&W) Ninad Walke, Karekar Damodar, Natalina Assangi, Godinho Akshada & Sushmita Vasta.

Director of Sports: Milton Fernandes

4.5 Directorate of Students' Welfare and Cultural Affairs

The Directorate of Students Welfare and Cultural Affairs promote and undertake activities relating to co-curricular and community development of students both on campus and colleges.

During the year 2013-14, the following activities were undertaken:

Election for the Executive Body of Goa University Student Council was held on 16/10/2013.

Election for the Post Graduate Student Union Of Goa University for the Year 2014-was held on 4th October, 2013.

Under Students Aid Fund financial Assistance amounting to Rs.7,79,250/- was given to 188 Post Graduate students to meet their educational expenses.

Plateaunica 2013-14 was organized from 27th to 29th Feb. 2013 in SilverJubilee Hall, Goa University. The Plateaunica was organized to bring together all the Post-graduate students and to enable them to test their creativity and talents in the field of Arts, Culture and Music. Several on-stage and off-stage events were held.

The PG students of Department of Konkani Goa University also participated in Yuva Mahotsav Festival held at Chicalim sports club, Vasco hosted by M.E.S College in Jan. 2014 .

The PGSU organized "Singing and Dance Competition" on 11th Dec. 2013 for PG students at the Goa University Campus.

Coordinators: Sanjeev Ghadi, Rahul Tripathi, Milton Fernandes

4.6 Career Counselling and Placement Cell (CC&PC)

A “Placement fair” was organised in the University Campus for the undergraduate and post graduate students of the University in which 263 students of Goa University attended the campus interview of the participating companies including Agency.in, Hello Group, Bajaj Allianz Co., IDBI Federal Insurance, Eureka Forbes, Bougainviella Resorts, HDFC Bank, Microlabs ltd., Caculo Group, Resurge Management Consultants, Smartlink Networks Systems Ltd., Himachal Futuristic Communications, Birla Sunlife Insurance Ltd. And N.D. Naik auto Parts.

A “Workshop on Career Counselling” was organised on 13th December 2013 in the University Campus. The final year students of the University Post Graduate Departments (~300) participated actively in this programme. Eminent speakers from diverse fields served as resource persons. Dr. Gajanan Madiwal, Govt. College, Pernem guided the students in preparing for ‘SET / NET examinations’ as a need for Teaching / Research Career. A presentation on ‘Career in Print Media’ was done by Ms. Shruthi Pandit, Editor, Goa Times which was followed by an interesting discussion. Mr. Pramod Acharya, Editor, Prudent Media presented his views regarding ‘Career in Electronic Media’. In the post-lunch session, the students had a very interesting refreshing interaction with Mr. Pravin Sabnis, Corporate Trainer, “Unlearning Unlimited” on ‘Personality development’. Mr. Rao S. V., AGM, SBI addressed on ‘Career opportunities in Banking and Insurance in near future’. Selected photographs of the workshop are uploaded and available in the cells website of the University.

Dr. Coordinator: Dr. Shyama, Department of Zoology

4.7 U. G. C. ACADEMIC STAFF COLLEGE

The Academic Staff Orientation Scheme is an outcome of NPE (1986). The NPE, in its programme of action, makes a pointed reference to the crucial link between teacher motivation and quality of education. Since teachers occupy a key position in the education system, the quality, competence and character of teachers are of utmost importance. They influence the standard of education and thus contribute to national development. The UGC-ASC was established with the objective of acting as an agency to bring about changes and development in education. It is meant to involve itself in the improvement in the Management of Higher Education, and to bring about a closer linkage between society and Higher through meaning study and research.

The UGC-ASC at Goa University has been conducting Orientation Courses since its establishment from February 1988.

In addition to Orientation Programme, Refresher Courses and Short Term Courses, the UGC-ASC has been regularly organizing Seminars/ Conference/ Interaction Programmes/ Meets and other academic activities.

In keeping with the recent advances in information Technology, the UGC has given a major thrust to IT and its applications. A Computer Lab has been set up with special grants from the UGC. Participants are given basic training along with hands-on experience with Computers. They are also helped in exploiting the informative resources on Internet and in the use of other technologies. Refresher Courses participants are trained to use software packages pertaining to their particular discipline.

Till date the UGC-ASC at Goa University has complete 88 Orientation Programmes and 176 Refresher Courses covering 3117 and 5209 participants respectively. During the year 2013-14 the UGC-ASC conducted 3 Orientation Programme, 6 Refresher Courses in subject of Commerce, Library Science, Hindi, Physical Education, Computer Science and Economics, 2 Short Term Courses were also conducted.

Refresher Courses / Orientation Programmes / S.T.C conducted in 2013-14

<u>Courses Conducted</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Refresher Course in Commerce 04-07-2013 to 24-07-2013	14	07	21
STC in Literature Search & Academic writing 26-08-2013 to 30-08-2013	12	12	24
86 th Orientation Programme 23-09-2013 to 21-10-2013	42	10	52
STC in Cyber Security 07-10-2013 to 10-11-2013	15	25	39
R.C in Library Science 13-01-2014 to 03-02-2014	17	03	20
R.C in Hindi 08-02-2014 to 28-02-2014	15	04	19
R.C in Physical Education 04-03-2014 to 25-03-14	44	02	46
R.C in Computer Science 09-01-2014 to 29-01-2014	17	05	22
R.C in Economics 07-03-2014 to 27-03-2014	28	03	31
87 th O.P 25-03-2014 to 21-03-2014	45	07	52
88 th O.P 28-03-2014 to 24-04-2014	31	06	37

Director In Charge: I.K.Pai

4.8 Health Centre

The new Health Centre premises was inaugurated on 13th May 2013 by M.P. Sripad Naik. On 20th September 2013 an Ophthalmic Camp was held at the new premises, in collaboration with the Dept. of Ophthalmology, Goa Medical College. Dr. Pradeep Naik, Prof. of Ophthalmology, along with his team attended to 390 patients who comprised of staff, students residents of Goa University campus and neighbouring villages. Patients were examined for Refractive error, Computer vision syndrome, Allergic conjunctivitis, Diabetic Retinopathy, glaucoma, Occular migraine, cataract for surgery, chalazion, Pterygium, myopia with macular degeneration. Spectacles were also given at discounted rates. There is one Medical Officer and one Staff Nurse managing the Health Centre which is open from 9.30 am to 5.45 pm on all working days.

The services provided include:

1. Emergency treatment and first aid
2. Out patient examination and treatment.
3. Centre for DOTS (T. B. Treatment).
4. Health Certification.
5. Disease surveillance.
6. Medical coverage of sports activities.
7. Health Education.

Medical Officer: Dr.Patricia Sequeira

4.9 College Development Council

I] PROPOSALS FORWARDED TO UGC

(A) MINOR / MAJOR RESEARCH PROJECTS OF UGC SCHEME

Sr. No.	Name of the college	Name of Teacher/s	Title
1.	Dr. Sucheta Y. Naik	"Marketing Strategies for Fisheries Development in Uttar Kannada District of Karnataka State"	Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts and Commerce, Delem, Canacona, Goa - 403702.
2.	Mrs Annie Rajan	"To Study Acceptance of Higher Education in The Northern Costal Tourism Belt of Goa using Educational Data Mining Techniques "	Dhempe College of Arts & Science Miramar, Panaji, Goa – 403001
3.	Mr. Sachin Mores	"Goan Diaspora: A study of Socio-Cultural Dynamics in Goa "	Smt. Parvatibai Chowgule College of Arts & Science, Margao, Goa.
4.	Ms. Sheetal Dnyandeep Arondekar	"The Changing Source of Livelihoods of Households in the Mining Villages of Goa "	Vidya Vikas Mandal's Shree Damodar College of Commerce & Economics, P.O. Box No. 347, G.R. Kare Road, Tansor, Comba, Margao, Goa – 403 601.
5.	Ms. Sobita Kirtani	"A Study of the mental health of the aged among the Gaud Saraswat Brahmin community "	Smt. Parvatibai Chowgule College of Arts & Science, Margao, Goa.
6.	Dr. Cajetan Rapose, Associate Professor	"Bhartiya Janata Party in Goan Politics – Profile and Performance".	St. Xavier's College of Arts, Science & Commerce, Mapusa, Bardez, Goa – 403507.
7.	Mr. Silvester A. Vaz	"Tiatr as a Form of Drama: A Theoretical Study"	St. Xavier's College of Arts, Science & Commerce, Mapusa, Bardez, Goa – 403507.
8.	Shri C.N. Phadte, Associate Professor	"Fibonacci Sequence and its Extensions"	GVM's Gopal Govind Poy Raiturcar College of Commerce and Economics, Post Box No. 102, Farmagudi, Ponda, Goa – 403401.
9.	Mr. Rajendra, Associate Professor	"Analysis and Use of Magnetic Barkhausen Noise for Non-destructive testing of imperfections in Ferromagnetic materials"	Carmel College of Arts, Science & Commerce for Women, Nuvem, Salcete, Goa – 403604.

10.	Mrs. Lynette de Silva Fortes	"The Effect of Life Stressors on Mental Health of Adolescents"	Carmel College of Arts, Science & Commerce for Women, Nuvem, Salcete, Goa – 403604.
11.	Mrs Sharmila Kunde, Asstt. Professor	"The impact of implementation of ergonomics guidelines on employee productivity and performance in IT and IT Enabled Services organizations in India"	Vidya Vikas Mandal's Shree Damodar College of Commerce & Economics, P.O. Box No. 347, G.R. Kare Road, Tansor, Comba, Margao, Goa – 403 601.
12.	Dr.(Mrs) Sima V. Kamat, Associate Professor	"Ethnobotanical Studies of the State of Goa"	P.E.S.'s College of Arts & Science, Farmagudi, Post Boc No. 3, Ponda, Goa - 403401.
13.	Mrs. Sharmila Kunde, Assistant Professor	"The impact of implementation of ergonomics guidelines on employee productivity and performance in IT and IT Enabled Services Organization in India"	Vidya Vikas Mandal's Shree Damodar College of Commerce & Economics, P.O. Box No. 347, G.R. Kare Road, Tansor, Comba, Margao, Goa – 403 601.
14.	Mrs. Sheetal Dnyandeep Arondekar	"The Immediate Impact of Suspension of Mining Operations on the Income and Livelihoods of the Households in the Mining Villagers of Goa"	Vidya Vikas Mandal's Shree Damodar College of Commerce & Economics, P.O. Box No. 347, G.R. Kare Road, Tansor, Comba, Margao, Goa – 403 601.
15.	Dr. Elizabeth Henriques, Associate Professor	"The Swarnjayanti Gram Swarozgar Yogena: An Empirical Evaluation of the Programme in Goa"	Govt. College of Arts, Science & Commerce, Quepem, Goa.
16.	Ms. Sarita P. Usgaonkar, Assistant Professor	"A study of Students Awareness, Perception and Willingness to join Agriculture Sector"	Govt. College of Arts, Science & Commerce, Quepem, Goa.
17.	Dr. Seema P. Salgaonkar, Associate Professor	"Traditional occupations, accessibility to Higher Education and the Role of State"	Govt. College of Arts, Science & Commerce, Khandola, Marcela, Goa.
18.	Rev. Dr. Simao R. Diniz, Principal	"A Study on the Role of Spirituality in Coping with stress across Different Age Groups"	Rosary College of Commerce & Arts, Navelim, Goa – 403707

(B) FACULTY IMPROVEMENT PROGRAMME

Sr.No.	Name of Teacher	College
1.	Mrs. Mukta Karamadi, Associate Professor	Dhempe College of Arts & Science Miramar, Panaji, Goa - 403001
2.	Mrs. Shilpa N. Desai	Fr. Agnel College of Arts and Commerce Pilar, Goa - 403 203.
3.	Mr. Cosma Fernandes	M.E.S. College of Arts & Commerce, Zuarinagar, Goa - 403726.
4.	Mrs. Smita S. Sanzgiri Asstt. Professor	G.V.M's G.G. Poy Raiturcar College of Commerce & Economics, Post Pox No. 102, Farmagudi, Ponda, Goa - 403 401.
5.	Ms. Raina Pinto Asstt. Professor	G.V.M's G.G. Poy Raiturcar College of Commerce & Economics, Post Pox No. 102, Farmagudi, Ponda, Goa - 403 401.
6.	Ms. Freda Cota e Pereira Assistant Professor	M.E.S. College of Arts & Commerce, Zuarinagar, Goa - 403726.
7.	Ms. Carmen Sharmila Pais Associate Professor	St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa - 403 507.
8.	Mr. Benedict P. Soares, Associate Professor	St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa - 403 507.
9.	Ms. Santana Fernandes, Assistant Professor	St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa - 403 507.
10.	Ms. Meghana S. Devli	Parvatibai Chowgule College of Arts and Science, Gogol, Margao, Goa - 403 602
11.	Glenis Maria Mendonca Nee D'Souza, Assistant Professor	Carmel College of Arts, Science & Commerce for Women, Nuvem, Salcete, Goa - 403 604.
12.	Maria Lizanne A.C., Assistant Professor	Carmel College of Arts, Science & Commerce for Women, Nuvem, Salcete, Goa - 403 604.

(C)PROPOSAL FOR ORGANIZING NATIONAL/International SEMINAR/CONFERENCE/Workshop.

Sr.No.	College	Topic
1.	G.V.M's G.G. Poy Raiturcar College of Commerce & Economics, Ponda, Goa - 403 401.	National level Seminar on "Teaching of English in Institutes of Higher Education"
2.	Dhempe College of Arts & Science, Miramar, Panaji, Goa.	State Level Workshop on "Maintenance of Laboratory Equipment, Training Workshop"
3.	Dhempe College of Arts & Science, Miramar, Panaji, Goa.	National Conference on " Mapping the Matrix of Contemporary Indian Literature in English "
4.	Dhempe College of Arts & Science, Miramar, Panaji, Goa.	State Level Conference on "Adolescents Wellbeing: Psychological Perspectives"
5.	Carmel College of Arts & Science & Commerce, Nuvem, Salcete, Goa 403 604.	"Financial Assistance for Seminar in the subject of Political Science"
6.	Carmenl College of Arts, Science & Commerce, for Women, Nuvem, Salcete, Goa - 403 604.	National Workshop on "APPLICATION OF PLANT SCIENCES IN BIODIVERSITY MANAGEMENT WITH SPECIAL REFERENCES TO WESTERN GHATS - THE ROLE OF TEACHERS AND STUDENTS"
7.	Government College of Arts, Science & commerce, Quepem, Goa.	National Seminar on "RECENT TRENDS IN MICROBIAL TECHNOLOGY"
8.	M.E.S. College of Arts & Commerce, Zuarinagar, Goa - 403 726.	National Conference on " Dalit Literature: Contents, Trends and Concerns "
9.	M.E.S. College of Arts & Commerce, Zuarinagar, Goa - 403 726. M.E.S. College of Arts & Commerce, Zuarinagar, Goa - 403 726.	State Level Seminar on "Adolescent Mental Health: Cause for attention towards a healthier tomorrow"
10.	Parvatibai Chowgule College of Arts & Science, Post-Fatorda, Margao, Goa - 403 602.	National Level Conference on "Economic Growth and Governance in India: Region-Specific Issues and Concerns"

(D)Additional Grants

Sr. No.	College
1.	D.M.'s VNS Bandekar College of Arts, Science and Commerce, Assagao, Bardez, Goa.
2.	Carmel College of Arts, Science and Commerce for Women, Nuvem, Salcete, Goa.
3.	Cuncoim Educational Society's College of Arts and Commerce, Cuncoim, Salcete, Goa.
4.	Shree Damodar College of Commerce & Economics, Comba, Margao, Goa.
5.	S.S. Dempo College of Commerce & Economics, Altinho, Panaji, Goa.
6.	Dhempe College of Arts & Science, Miramar, Panaji, Goa.
7.	Fr. Agnel College of Arts and Commerce, Pilar, Goa-403 203.
8.	Government College of Arts, science & Commerce, Sanquelim, Goa.
9.	Government College of Arts & Commerce, Virnoda, Pernem, Goa.
10.	Government College of Arts, Science & Commerce, Quepem, Goa.
11.	Government College of Arts, science & Commerce, Khandola, Marcela, Goa.
12.	G.V.M.'s Gopal Govind Poy Raiturcar College of Commerce & Economics, Farmagudi, Ponda, Goa - 403 401.
13.	G.V.M.'s Dr. Dada Vaidya College of Education, Farmagudi, Ponda, Goa.
14.	V.V.M.'s G.R. Kare College of Law, Govind Ramnath Kare Road, Tansor, Comba, Margao, Goa-403 601.
15.	Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts & Commerce, Delem, Canacona, Goa.
16.	M.E.S. College of Arts, and Commerce, Zuarinagar, Goa - 403 726.
17.	Narayan Zantye College of Commerce, Bicholim, Goa.
18.	P.E.S.'s Shri Ravi S. Naik College of Arts & Science, Farmagudi, Ponda, Goa.
19.	Rosary College of Commerce & Arts, Navelim, Goa - 403 707.
20.	V.M. Salgaocar College of Law, Miramar, Panaji, Goa-403 001.
21.	Saraswat Vidyalaya's Sridora Caculo College of Commerce & Management Studies, Telang Nagar, Khorlim, Mapusa, Goa - 403 507.
22.	St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa.
23.	Smt. Parvatibai Chowgule College of Arts and Science, P.O. Fatorda, Margao, Goa - 403 602.
24.	Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts and Commerce, Delem, Canacona, Goa.

(F) TRAVEL GRANT TO COLLEGE TEACHERS FOR PRESENTING PAPERS IN INTERNATIONAL CONFERENCE(S)

G.V.M.'s Gopal Govind Poy Raiturcar College of Commerce and Economics, Post Box No. 102, Farmagudi, Ponda, Goa - 403 401.	"Travel Grants"
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4.10 Hostels

Women's Hostel:

Goa University provides hostel facility for women students on the University campus. There are two Women's Hostels on the University Campus and 240 students can be accommodated in these hostels. Women students who have enrolled for post-graduate and Ph. D. courses at the University campus are accommodated in these hostels.

Men's Hostel:

Men's Hostel-III houses mostly postgraduates and research scholars of the University PG departments. Students from affiliated colleges not having hostel facility are also accommodated in the hostel if vacant rooms are available after admitting the University students. Men's hostel-III is a three floor building with 28 rooms on each floor. The maximum of 140 students can be accommodated in this hostel as ground/first floor has double bed rooms for PG students and the second floor has single bed rooms for research scholars. Hostel is well equipped with the facilities like Gym, spacious recreation room with cabled TV and table tennis, lift, reading room, huge mess with equally good food facilities for the hostellers, Wi-Fi connectivity etc.

PART 5:
AFFILIATED COLLEGES & RECOGNISED INSTITUTIONS

General Education

1. Dhempe College of Arts & Science, Miramar, Panaji
2. Smt. Parvatibai Chowgule College of Arts and Science, Margao
3. St. Xavier's College of Arts and Science, Mapusa
4. S. S. Dempo College of Commerce & Economics, Altinho, Panaji
5. Carmel College for Women, Nuvem, Salcete
6. M. E. S's College of Arts & Commerce, Zuarinagar
7. Shree Damodar College of Commerce & Economics, Margao
8. D M's Anand R. Sirsat College of Arts, Sou. Sheela Premanand Vaidya College of Science and V. N. S. Bandekar College of Commerce, Assagao
9. Goa Vidyaprasarak Mandal's College of Commerce & Economics, Ponda
10. P. E. S.'s Shri Ravi S. Naik College of Arts and Science, Ponda
11. Cuncoim Education Society's College of Arts and Commerce, Cuncoim
12. Government College of Arts, Science and Commerce, Sanquelim
13. Goa College of Home Science, Campal, Panaji
14. Government College of Arts, Science and Commerce, Khandola, Marcela
15. Government College of Arts, Science and Commerce, Quepem
16. Rosary College of Arts & Commerce, Navelim
17. Saraswat Vidyalaya Sridora Caculo College of Commerce and Management Studies, Mapusa
18. Fr. Agnel College of Arts and Commerce, Pilar
19. Government College of Arts and Commerce, Pernem
20. Shree Mallikarjun College of Arts and Commerce, Canacona
21. Zantye Brothers' Educational Foundation's College of Commerce, Bicholim
22. Govt. College of Commerce, Borda, Margao
23. Vikas Parishad, Mandrem College of Commerce, Madhla Maj, Pernem
24. Swami Vivekanand Vidya Prasarak Mandal's College of Commerce, Bori, Ponda
25. Shree Sateri Pissani E. S. Shri Gopal Gaonkar Memorial Goa Multi-Faculty College, Dharbandora.

Professional

26. GSS's Don Bosco College, Panaji
27. Goa College of Pharmacy, Panaji
28. Goa Engineering College, Farmagudi, Goa
29. Nirmala Institute of Education, Altinho, Panaji
30. Goa College of Fine Art, Altinho, Panaji
31. Devi Sharvani Education Society's .V. M. Salgaocar College of Law, Miramar, Panaji
32. V. V. M. Govind Ramnath Kare College of Law, Margao
33. Goa Dental College, Bambolim
34. College of Architecture, Altinho, Panaji
35. Goa College of Music, Altinho, Panaji
36. Institute of Nursing Education, Bambolim
37. Goa Vidya Prasarak Mandal's College of Education, Ponda
38. Bhartiya Sanskriti Prabodhini's Gomantak Ayurveda Mahavidyalaya and Research Centre, Shiroda
39. Goa Medical College, Bambolim
40. Shivgram Education Society's Homoeopathic College and Hospital, Shiroda
41. National Hydrographic School, Vasco-da-Gama
42. Padre Conceicao College of Engineering, Verna
43. Vidya Vikas Mandal's Institute of Management, Training and Research, Margao
44. Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda
45. P. E. S. College of Education, Ponda
46. Victor Medical & Research Foundation's College of Nursing, Margao
47. Vrundavan Institute of Nursing Education, Porvorim
48. Institute of Psychiatry & Human Behaviour, Bambolim
49. P. E. S's Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi, Ponda
50. Don Bosco College of Engineering, Fatorda, Margao
51. Goa College of Hospitality and Culinary Education, Cida de Goa, Vaiginim Beach
52. Agnel Institute of Technology and Design, Assegao Bardez
53. Vidya Prabodhini College of Commerce Education, Computer and Management, Porvorim.

GENERAL EDUCATION COLLEGES

5.1 DCT Dhempe College of Arts and Science, Miramar

Year of Establishment: June 1962

College Address: DCT Dhempe College of Arts & Science, Miramar,
Panaji, Goa-403001

Principal's Details:

Name: Dr.Yasmin Modassir

Contact no.: (0832)2462315

Email:principal@dhempecollege.edu.in

College website: www.dhempecollege.com

Vision Statement:To be a Premier Institution of India for the Academic Excellence and Holistic Development of Individuals.

Mission Statement:To be committed towards making Education inclusive , Interactive and to enhance Education by a knowledge-driven, Technology-enabled and Learner-friendly Pedagogy with an endeavour to develop Employable Citizens with Humane Values and Social Commitment.

Courses offered& Sanctioned and filled strength:

- B. Sc.:sanctioned-396 & filled-287,
- B. A.: sanctioned-490 & filled-487,
- Post Graduate Diploma in Journalism & Mass Communication,
- Certificate course in Analytical Chemistry.

Faculty strength: 39

Achievements of the College:

- National Programme for Technology Enhanced Learning (NPTEL) has offered to be partner with this College to conduct Pan India Workshops.
- Spoken Tutorial Workshops which are an ICT based project by IIT Mumbai for learning open source softwares are conducted. An Online test issuing IIT Mumbai certificates to the participants are awarded after successful completion of the course.

Completed projects/completed during June2013-May 2014

Name/s of Investigator/s	Project Title	Date of Sanction	Funding Agency	Amount (Rs. in Lakhs)
Dr.(Mrs) Yasmin Modassir	Environmental Impact assessment of ground water quality w.r.t. Microbiological, Chemical and Geological parameters	3rd February, 2011- 3 years	UGC, Project.Geological Parameters	12.47058
Dr. Maria Augusta D'Souza	Studies on biodiversity and bioprospecting of endophytic fungi from medicinal plants of western ghats, Goa	31.3.2011, 3 years	DST	18.80
Mrs. Maria Suzanna Miranda	Application in Industrial Mathematics	11.01.2012, 2 years		1.98
Mrs. Deepa Audi	Synthesis and characterisation of single metal and mixed metal Ferrites	22.02.2012 , 2years		1.15
Mrs. Clarinda Dias	The Goan Canadian Sensibility in the novels of Ben Antao in the subject English	8.03.2012, 2 years		0.60
Dr.(Mrs) Vrinda Borker	Synthesis and characterisation of single metal compounds	2 years ,	UGC Project	0.50

Conferences/workshops organized:

- Seminar on Human Rights - 30.01.2014
- Telescope making Workshop - 5.12.2013 to 22.12.2014
- Maintenance of Electronic Laboratory Equipments - 29.06.2013

Publications:

	Foreign	Indian
Research papers in journals	01	02

Papers presented in conferences/seminars/workshops:

Abroad: 01	within India: 05	within Goa: 05
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Sports Achievements:

- Mr. Lavu Govekar won a gold medal in bench Press senior championship and a bronze medal in senior power -lifting championship.
- Mr. Lavu Govekar won All Goa Power-lifting championship held at Quepem and Won 2 Gold medals in power-lifting, junior & senior category and Won 2 Silver medals in bench-press junior & senior category.
- Pooja Naik has been selected to represent Goa State in the 39th National Women Sports Competitions in Kho-Kho to be held in Karnataka.

5.2 Parvatibai Chowgule College of Arts and Science, Margao**Year of Establishment: June 1962****College Address: Gogol, Margao, Goa - 403601****Principal's Details:****Name:** Dr. R. V. Gaonkar**Contact No:** 91(0832) 2759504**email:**principal@chowgules.ac.in**College website:**www.chowgules.ac.in**Vision and Mission Statement:**

To continue to be pioneers of change using cutting edge educational inputs and the technology, providing equal opportunities to all and inculcating social and moral values that will transform the society and the nation at large.

Courses offered and Sanctioned Strength:

- B. Sc. – 240,
- B. Sc. (Biotechnology) – 20, B. A. – 180,
- M. A. (Geography) – 20, M. Sc. (Information Technology) – 20,
- PGDCA – 30,
- PGDGIS – 20.

Faculty Strength: 55.**Any new course(s) started:**

- T.Y.B.A. - Sociology
- M.Sc. – Analytical Chemistry
- PGDCGMLT (Post Graduate Diploma in Clinical Genetics and Medical Laboratory Techniques).

Achievements of the College:

- The college has been re-accredited with Grade 'A' by National Assessment and Accreditation Council (NAAC) with a CGPA score of 3.41 on a 4 point scale in the third cycle of accreditation in May 2014.
- The college was awarded 'Business Goa' Award for contribution in Education for the academic year 2013-14.

Ongoing sponsored Research Projects.**Major Research Project:**

Name of Investigator/s	Project Title	Date of Sanction And duration	Funding Agency	Amount (Rs. in Lakhs)
Dr. Nandini Vaz Fernandes	NO.SB/YS/LS-244/2013 Title:- "Heavy metal bioaccumulation and genotoxicity studies of fishes exposed to mining effluents in Goa"	2014-15	(SERB) DST	13.10
Dr. Sanjay Gaikwad	Development of GPS Collars for Wildlife study.	2009-10	CES	8.00
Dr. N. N. Sawant	Ref:- 41-1067/2012(SR) Title:- Socio-Cultural Transformation and impact on the society.	2012-14	UGC	9.11
Dr. N. N. Sawant	Ref:- 02-147/2011-RP Title:- "Goa: Tourism & Socio-Cultural Implications, A study of selected Tourist destination of south	2012-15	ICSSR	5.39
Dr. Sangeeta G. Sankhalkar	Ref:- SR/SO/PS/119/2010 Title:- Nonenzymatic (ascorbate induced) antioxidant enzyme protection in rice	2012-14	UGC	22.92

Minor Research Project:

Name of the Investigator	Title of the project	Date of Sanction & duration	Sponsored by	Amount (Rs. in Lakhs)
Dr. R. Kanchana	Ref:-47-1645/10 (WRO) dtd. 1/5/2011 Title:- Keratinase Production by Fundal species from Goa	2011-12	UGC	1.70
Smt. Anagha Dicholkar	Ref-23-1069/09 (WRO) dtd. 28/8/09 Title:- Velips in Goa	2009-10	UGC	1.15
Dr. Roopa Belurkar	Ref-47-772/09 (WRO) dtd. 13/8/09 Title:- "Synthesis characterization, biological activity of some metal complexes	2009-10	UGC	0.75
Smt. Rupali Tamuly	23-2113/10 (WRO) dtd.5/10/10 Title:-- Changing Population Structure	2010-11	UGC	0.25

Smt. Shaila Ghanti	Ref:- 47-1771/10 (WRO) dtd. 8/5/11 Title:- "Embedded System for network security"	2011-12	UGC	1.65
Dr. Sonia Fernandes Da costa	Ref:-23-2248/10 (WRO) dtd. 22/2/2012 Title:- Regional Goan Writers writing in English	2012-13	UGC	0.90

Sponsored Consultancy Work undertaken:

Dr. Sanjay Gaikwad, Winter Training Programme in Geospatial Technologies, NRDMS Division, Department of Science & Technology, New Delhi, 21 days, Rs. 10 lakhs.

Conferences/Workshops Organized:

CONFERENCES

National

- Two days UGC Sponsored National Conference on 'Current and Emerging Trends in Life Sciences' on 18th& 19th March 2014.
- Two days National Seminar on 'Sahitya aur Cinema : Antarsambandh' on 21st& 22nd March 2014.

State level

- State level seminar on "Economic Importance of Cryptogams, Remote Sensing in Ecological Studies and Application of Bioinformatics in Botany" on 30th November 2013.
- State level seminar on "Smt. Vrunda Kantak's Literature 'Bakul Onzal'" on 26th February 2014.
- State level seminar on "E-waste Management" on 5th March 2014.

WORKSHOPS

- Workshop on 'Joomla Frameworks' (Content Management System) on 24th August 2013.
- Workshop on 'Curriculum Designing in Practicals at Third Year Geography' on 26th September 2013
- Workshop on "Role of teacher in changing the mind set of students" on 15th October 2013.
- Workshop on 'Academic Assignment Writing and Plagiarism' on 7th January 2014.
- Workshop on 'Introduction to Microprocessors and Microcontrollers' from 16th to 18th January 2014.
- Workshop on 'Contemporary issues in Biology' from 20th to 22nd January 2014.
- Workshop on "Rural Development" from 26th to 30th January 2014.
- Workshop on "Quantum GIS" on 28th and 29th April 2014.

Publications:

Research papers in journals
In Edited Books
Books

Foreign

11
-
02

Indian

03
02
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Papers presented in Conferences/Seminars/Workshops:

within India: 27 within Goa: 02

Any other information**Faculty Achievements:**

Dr. Nandkumar N. Sawant was awarded the Prof. D. B. Wagh Memorial Shikshan Bhushan (Best Teacher Award 2013) by Shikshak Vikas Parishad (State and National Awardee Teacher's Association) in October 2013.

Students Achievements:

- Miss Sukanya Chari, student of TYBA was awarded the 'Hira Wagh Award' for the academic year 2013-14 for her all round performance in studies and extra-curricular activities.
- Mr. Rahul Prabhudesai, a student of TYBA was the first person from Goa to reach the Island Peak (6200 mts above MSL) of SoluKhumbu region, Northern Himalayas, Nepal in Dec 2013.
- Miss Sumita Chodnekar, a student of TYBA, Department of Konkani, wrote a book entitled "Mhurthmani", a collection of short stories, which was published by Goa Konkani Academy. It was released on 14th December 2013 at the 15th Goa Yuva Konkani Sahitya Sammelan, organised by Goa University in association with Goa Konkani Academy.

Sports Achievements:

- Tiger Cricket Club's College Cricket Team won open national under 21 tournament defeating Speedy Cricket Academy from Bhuj Gujarat. Mahesh Rao of TYBSc and Samar Dubhashi of FYBA performed excellently throughout the event.
- Stanlee Stephen and Amruta Raut Desai won Gold Medals at State Karate Championship. Stanlee was also selected to represent Goa State team in the national Karate championship held at Jharkhand. He also represented India in the international championship held at Kerala in December 2013.
- Sharmad Mahajan won Singles and doubles title at State Badminton Championship.
- Samar Dubhashi of FYBA was amongst the probable of Goa Ranji team this year. He attended a month long practice tour of Goa team. He was later selected to represent Goa under-19 cricket team and currently he is representing Goa under-22 team. Mr. Mahesh Rao of TYBSc is also selected to represent Goa under-22 team.
- Miss Sukanya Chari of TYBA was selected to represent Goa state chess team in national championship.
- Valucio Rodrigues won a silver medal in state open High Jump competition. Valucio Rodrigues also represented Goa state in west zone Athletics Championship organised at Vadodara Gujarat. He was also a part of the athletics contingent for Lusofonia Games.

5.3 St. Xavier's College of Arts, Science and Commerce, Mapusa

Year of Establishment: 1963.

College Address: Altinho, Mapusa, Bardez, Goa – 403507.

Principal's Details:

Name: Dr. (Fr.) Walter de Sá

Contact No.: 9822150868

91 (0832) 2262356 / 2263031 / 2250705

Fax: 91 (0832) 2262356

Email: xavierscollege@bsnl.in

Website: www.xavierscollege-goa.com

Vision and Mission Statement:

Vision: "Formation for Transformation"

Mission: "To provide balanced all round education to young men and women to be disciplined citizens, who will display a high intellectual caliber, together with emotional balance and social commitment and particularly, at helping Catholic Youth to be committed followers of Christ".

- **Courses offered and sanctioned strength:**
- B. A. - 180, B. Sc.- 180, B. Com. - 180,
- B. A. (Mass Communication & Videography) (Self-Financed) - 75,
- B. A. Journalism (Self-Financed)-75,
- B. Sc. Biotechnology (Self-Financed)-90,
- B. C. A. (Self-Financed) -120,
- B. B. A. (Self-Financed)-90, B. B. A. (T&T) (Self-Financed)-90,
- M. A. (Psychology) (Self-Financed)-60,
- M.Com.(Self-Financed) - 80,
- M. Sc. (Physical Chemistry) (Self-Financed) - 40.

Faculty Strength:82.

Teachers deputed for higher studies under FIP or on Fellowship of more than three months duration abroad:

Ms. Carmelita D'Mello, FIP, Pune.

Mr. Nelson Lobo, FIP Pune.

Sponsored Research Projects sanctioned between June 2013 and May 2014.

Name of Investigator/s	Project Title	Date of Sanction and Duration	Funding Agency	Amount (Rs. in Lakhs)
1. Dr. Cajetan Rapose	Bhartiya Janata Party in Goan Politics – Profile and Performance	20.03.2014 Two Years	UGC Pune	1.20

- **Conference/Workshops organized:**
- 21st Century Konkani Novel, 7December, 2013.
- Conference on Science, Tech. & Environment, 25February, 2014.
- Glimpses of Microbiology in Integrative Biosciences, 25 September, 2013.

Publications:	Foreign	Indian
Research Papers in Journals	02	01
In Edited Books	-	03

Papers presented in Conferences/ Seminars/Workshops: (No. of Teachers)

Within India:20

Within Goa:22

No. of teachers who obtained Research Degree during the year:

P h.D.:07

Any other information:

NAAC, reaccreditation with Grade A (CGPA 3.36 on 4 point scale).

Certificate of Appreciation awarded to the Principal Dr. (Fr.) Walter de Sa by Shri Ram Chandra Mission and United Nations Information Centre for India, Bhutan.

Sports Achievements:**State Level:**

- Winners of the intercollegiate Judo, Volleyball, Cricket and Baseball Championships for Women.
- Runners-up for the intercollegiate Swimming, Taekwando, Table-Tennis and Hockey for Women.

International Level:

- Students have participated at the Lusofania Games and have won medals as follows;
- Desiree Pereira – Bronze Medal in Shot Put.
- Steffi Fernandes – Gold medal in Volleyball.
- Alber Gonsalves – Gold Medal in Football.
- Sushmita Harmalkar – Participation in Athletics for the Lusofania Games.
- Jovito Fernandes – Participation in Athletics for the Lusofania Games.

National Level:

- Students have participated at the inter-university level in the following events:
- Cricket: Akshaya Shetgaonkar, Vaibhavi Neugi, Sonali Gaunder, Elsi Fernandes
- Football: Astrid Pereira, Joslyn D'Souza, Preeti Shinde, Bethany Remedious, Rekha Bhale, Snehalata Thakur.
- Judo: Brenda D'Sa.
- Taekwondo: Debra Gomes.
- Mr. Narendranath Sidhgavli was selected to participate in the Republic Day Parade and Republic Day Camp at Jawaharlal Nehru Stadium, New Delhi, from 1st to 31st January, 2014.
- Sgt. Peter D'Souza attended the Republic Day Camp held at New Delhi on 26th January, 2014.

5.4 DCTs S. S. Dempo College of Commerce & Economics.

Year of Establishment: June 1966

College Address: Serra Building., near All India Radio, Altinho, Panaji-Goa. - 403001

Principal's Details:

Name : Dr. Radhika S. Nayak

Contact No. : 0832-2226806, 2421734.

Email : principal@dempocollege.edu.in, Office@dempocollege.edu.in

College Website: www.dempocollege.edu.in

Vision and Mission Statement:

Vision: "Commerce in the Service of Society"

Mission: "To nurture healthy, reliable and creative citizens whose social awareness will vitalize the community, both locally and globally".

Courses offered and sanctioned strength: B. Com. - 901,

- M. Com. - 87 (self financed),
- B. B. A. (self-financed) - 140;
- PGDBA-Event Management (self-financed) – 22;
- M.A. –Travel & Heritage Management – 13.

Any new course(s) started: M.A. –Travel & Heritage Management

Faculty strength: 22.

Achievements of the college: College launched Dempo College Event Management Association, the first ever Industry Academy linkage platform focusing on event management industry in Goa.

Conference/Workshops Organized:

Annual Convention of Goa Commerce Association on 30th April, 2014.

Publications:	Foreign	Indian
Research Papers in Journals	04	05

Papers presented in Conferences/Seminars/ Workshops:
within India: 04

Number of teachers who obtained research degree during the year:
Ph.D.: 01

Any other information:

The college provided event management and consultancy services to Goa Management Association for organizing All India Management Association sponsored - Shaping Young Minds Programme on October 4, 2013.

Sports Achievements:

International

- Kezia Fernandes, S.Y BCom represented Goa India Basketball team at the 3rd Lusofonia Games held in Goa in January, 2014. She secured Bronze Medal.

National Level

- Amey Bhandari, T.Y.B.Com in Softball and won 3rd place (Andhra Pradesh)
- Sai Naik, T.Y.B.Com in Softball and won 3rd place (Andhra Pradesh)
- Pandurang Pednekar, T.Y.B.Com in Softball and won 3rd place (Andhra Pradesh)
- Laxmi Sulare, S. Y.B.Com in Tennis Ball Cricket and won 2nd place (Goa)
- Abhishek Dalvi, F.Y.B.Com in Carrom (Andhra Pradesh)
- Rajat Shet, F.Y.B.Com in Cricket (Cuttack)
- Gauresh Khandeparkar, S.Y.B.Com in Tennis Ball Cricket (Jharkhand)
- Sahil Vaigankar, F.Y.B.Com in Baseball (Maharashtra)
- Nikita Naik, T.Y.B.Com in Kho Kho (Karnataka)
- Jagdish Vargaonkar, S.Y.B.Com in Softball (West Bengal)
- Sonal Kamble, F.Y.B.Com in Fencing (Jammu & Kashmir)
- Ajay Diukar, F.Y.B.Com in Volleyball (Rajasthan)
- Aybyl Fernandes, F.Y.B.Com in Karate (New Delhi)
- Samjhana Oli, F.Y.B.Com in Hockey (Mysore)
- Queenie Desa, F.Y.B.Com in Hockey (Mysore)
- Leena Gaunso, F.Y.B.Com in Hockey (Mysore)

Represented Goa University in the Inter University tournament

- Nikita Naik, T.Y.B.Com in Cricket
- Leena Gaunso, F.y.B.Com won 2nd place at West Zone

5.5 Carmel College of Arts, Science and Commerce for Women, Nuvem

Year of Establishment: 1964

College Address: Carmel College of Arts Science & Commerce
For Women, Nuvem, Salcete - Goa.

Principal's Details:

Name: Dr. (Sr.) M. Aradhana A. C.

Contact No: 2790959

Email: acaradhana@yahoo.co.uk

College website: www.carmelcollegegoa.org

Vision and Mission Statement:

Vision: "Holistic Development of Women through Education". The Education imparted by the Apostolic Carmel is geared towards the total development of women by instilling in them Christian values and forming them into responsible citizens, equipped to work in tandem with a rapidly changing and developing society.

Mission:

To work for the faith formation of our Catholic students

To have value based and quality oriented learning

To prepare women to play a dynamic role in a multi – cultural global Society

To inculcate in the students a sense of integrity and service and mould them into leaders

To bring first generation rural learners into higher education to inculcate in them the strength to demand their due from family and society

Courses offered and sanctioned strength: B.A., B.Sc., and B.Com, M.A. in Counseling Psychology, M.Com.

Faculty Strength:36.

Achievements of the College: Our College signed the memorandum of Understanding with National Institute of Oceanography, Goa on 1st July 2013 with the main objective of strengthening scientific profile/pursuits of its stake holders.

Ongoing projects/completed during June 2013 and May 2014:

Name of Investigator/s	Project Title	Date of Sanction and Duration	Funding Agency	Amount (Rs in Lakhs)
Mr. Rajendra	Analysis and use of Magnetic Barkhausen Noise for Non-Destructive testing of imperfections in Ferromagnetic materials	21/03/2014 - 2 years	UGC XII plan under Minor Research	0.85

Conference/Workshop organized:

- Workshop on “ Application of Computer Technology to Enhance Teaching Skills” .
- Workshop on 'Breaking the Barriers' on 22nd July 2013, On 19th June 2013
- CUBE (Collaborative undergraduate Biology Education) Goa 2013 workshop on 26th August 2013.
- Workshop on Leadership and Critical Thinking skills on 20/09/2013.
- Workshop on Educator skill Training on Sahyadri Freshwater Biodiversity conservation on 22nd October 2013.
- UGC sponsored two day National Seminar on 'JANASANA HAR MADHYAM EVAM HINDI' on 18/03/2014 and 19/03/2014.
- A workshop on capacity building for College Teachers on 21st and 22nd March 2014 .
- UGC sponsored two day National Seminar on “Women Leadership and Capacity Building in the Political and Economic spheres: Prospects, Road Blocks and Strategies” on 28/03/2014 and 29/03/2014.
- 3 day State level workshop on Phycology' from 28/04/2014 to 30/04/2014 . The theme was 'Capacity building in Identification, Taxonomy and Conservation of Algae including Phytoplanktons with special reference to Marine ecosystems'.

Conferences/Seminars/Workshop attended:

Within India: 07 Within Goa: 58

Publications:

	Foreign	Indian
Research papers in journals	09	10
In Edited Books	--	01

Papers presented in Conferences/Seminars/Workshop:

Abroad: 03 within India: 13 within Goa: 09

No. of teachers who obtained research degree in the year:

Ph. D.: 01

Any other information(Awards/Honours and Special Achievements)

- Dr. Efrem D'Sa was felicitated and presented with a memento for the dedicated services in setting up experiments in Physics for conducting Refresher Courses for Training teachers and students in the Country .
- Dr. Manoj R. Borkar has been awarded the “Bharat Jyoti Award” in recognition of meritorious services, outstanding performance and remarkable leadership role in different walks of life in the Environment category.

Sports Achievements:

- Ms. Dextra Pereira represented Goa in the Taekwondo championship 2013 held at Manipur. She was the only Goa Girl selected in Taekwondo in the National team of the 3rd recently concluded Lusofonia Games 2014 held in Goa and was awarded a Bronze medal in a Global forum.
- Ms. Zelya Correia represented Goa in the Women's Kabaddi Nationals held in Haveri, Karnataka.

5.6 M. E. S. College of Arts & Commerce, Zuarinagar

Year of Establishment: 1972.

College Address: Zuarinagar-Goa, 403726

Principal's Details:

Name: Dr. M.C.Rodrigues,

Contact No: 9890391325

Email:prin.mes@unigoa.ac.in

Website:www.mescollege.org

Vision & Mission Statement:

Vision: Higher Education will play the most critical part in accelerating the pace of all round development of India during the 21st century. MES is determined and equipped to contribute its might to the building up of a strong, growing and prosperous India, through its educational endeavours. M.E.S has established a wide network of academicians from several colleges and universities, N.G.Os, corporate bodies etc. to fulfil its educational endeavours.

Mission: The M.E.S mission is to equip the youth in and around Murgao with an up-to-date knowledge, marketable skills and high ethical values enabling them to participate effectively in the Nation building process and achieving fullest development of their potential, creative abilities and leadership qualities.

Courses offered and sanctioned strength:

- Arts - 322,
- Commerce - 680,
- BBA - 125, BCA - 125,
- B. Com. (Shipping Management) – 72.

Any new course(s) started: Bachelor of Business Administration in Shipping & Logistics.

Faculty strength:36.

Teachers deputed for higher studies under FIP or on Fellowship of more than three months duration abroad: 04

Ongoing projects/ Completed during June 2013 and May 2014:

Name of Investigator/s	Project Title	Date of Sanction and Duration	Funding Agency	Amount (Rs. in Lakhs)
Dr. Cidalia Bodade, Associate Professor	Exploitation of Women in Tourism A Case study of Goa	18/03/2011 -2 years	UGC	5.10

Publications:	Foreign	Indian
Research papers in journals	--	5
In Edited Books	--	3
Books	--	1

Papers presented in Conferences/Seminars/Workshops:

Abroad: 01 **Within India:**13 **Within Goa:**06

No. of teachers who obtained research degree during the year:

M.Phil:01

Achievements of the College:

Our College students emerged as the champions at Psygnus 2014 organized by Abbe Faria Post Graduate Department of Psychology, St. Xavier's College, Mapusa held on the 9th of January 2014.

Sports achievements:

West-Zone

- Ms. Rupali Parab and Ms. Manjushree Bhagat both from 2nd year B.Com class participated at the West-zone Tennis ball Cricket Championship from Tennis Ball Cricket Association and SAG from 03.08.2013 to 05.09.2013 at Raibandar, Panaji-Goa.
- Mr. Pandurang Chavan of First year B.A Class secured silver medal in 8 kmts race organized by the Directorate of Sports & Government of Goa on the eve of Independence Day at Panaji

National Level

- Ms. Manjushree Bhagat of Second year B.Com participated at 21st Jr. National Tennis Ball Cricket championship held at Haridwar Uttarkhand from 21st to 24th November, 2013.
- Ms. Anisha Gawde of second year B.Com participated at the National Women's Sports Championship in Kho Kho held at Haveri (Karnataka) from 27th to 30th November, 2013.
- Ms. Rupali Parab of second year B.Com participated at the Sr. National Tennis Ball Cricket Championship held at Ranchi (Jharkhand) from 26th to 29th December, 2013, from Goa Tennis Ball Cricket Association and S.A.G.
- Mr. Shayad Khan of First year B.A bagged Gold Medal in senior Wt. Category at the SQAY Martial art National Championship 2013 organized by SQAY Association of Goa and SQAY Federation of India held at Ponda-Goa from 14th to 16th November, 2013.
- Mr. Rupesh Naik of Final year BCA participated at the 26th Sr. National Tug of war championship organized by Tug of War Federation of India at Nasik Maharashtra from 11th to 15th January, 2014.

Inter-National Level

- Mr. Shayad Khan of participated at the 4th South Asian SQAY Championship held at Kathmandu, Nepal from 18th to 21st January, 2014 and won Gold Medal in Sr. Wt. Category and Silver Medal in Jr. Wt. Category 54 Kg. Wt.
- Mr. Pandurang Chavan bagged Gold Medal and successfully completed the relay run at the skechers Goa River Marathon 2013.

5.7 V V M's Shree Damodar College of Commerce & Economics, Margao.

Year of Establishment: 1973

College Address: P.O.Box No. 347, G.R. Kare Road, Tansor, Comba, Margao-Goa, 403 601

Principal's Details:

Name:Dr. I. Bhanu Murthy. (till 31/12/2013)

Dr. (Mrs.)Prita D. Mallya. (from 01/01/2014)

Contact No: 2714224, 2732084

Email:principal.sdcc@vvm.edu.in

College Website: www.damodarcollege.edu.in

Vision and Mission Statement:

Vision: The College sees itself as a torch-bearer imparting total quality education in Commerce.

Mission: The College stands committed to nurturing an environment for the holistic growth of our students and faculty, by imparting knowledge, values and skills in Commerce, conducive to good citizenship.

Courses offered, sanctioned and filled strength:

- (B.Com.)-720 (+ 10%),
- (B.C.A.) - 240, (B.F.S.) -120,
- (M.Com.) -80.

Faculty Strength: Principal - 01, Full Time -19

Conferences / Workshops Organized by the College:

- 25/01/2014, Seminar “Investor Awareness Programme”
- 07/02/2014, State Level ‘Prof. Suhas Mulay Memorial Student’s Seminar’ on “Mining in Goa: Issues & Concerns”.
- 28/02/2014, State level intercollegiate financial event “MONEY MATTERS 2014”
- 04/03/2014, State Level Seminar on “Recent Trends in Financial Markets”.

Publications:	Foreign	Indian
Research papers in journals	01	02

Papers presented in Conferences/Seminars/Workshops:

Within India: 10 within Goa: 41

No. of teachers who obtained research degree during the year:

Ph.D: 01

Sports Achievements:

State Level

- Our College won All Goa Inter Collegiate Invitation Power Lifting Championship at our College Sports Complex in July 2013.
- Our College was runner up at the All Goa Inter Colligiate Table Tennis Invitation Mix individual tournament held at our College Sports Complex.

National Level Participation:

- **Chess:** Ms. Nandhini Saripalli, S.Y.B.Com. participated at the 28th National Junior Girls under 19 years Chess Championship held at Lucknow, U.P.
- **Football:** Mr. Meldon D’Silva, F.Y.B.Com. participated at All India Football (Santosh Trophy) Championship held at Silliguri, West Bengal.

- **Power lifting: Mr. Purnay Raikar**, S.Y.B.Com. participated at All India Bench Press Power Lifting Championship held at Jammu & Kashmir.
- **Handball:Ms. Zahra Cardozo**,S.Y.B.Com. participated at All India Inter State Handball Tournament held at Tamil Nadu.

International Level

- **Foot Ball:** Mr. Meldon D'Silva, F.Y.B.Com. Gold Medal Winner(football) at 3rd Lusofonia Games 2014 held at Goa.
- **Aquatic:** Ms. Sushmita S. Vasta, M.Com.II, participated at World University Aquatic Championship held at Kazakistan.

5.8 D M's Anand R. Sirsat College of Arts Sou. Sheela Premanand Vaidya College of Science and V. N. S. Bandekar College of Commerce, Assagao

Year of Establishment: June, 1974

College Address: Dnyanprassarak Mandal's College of Arts, Sou. Sheela Premanand Vaidya College of Science & V.N.S. Bandekar College of Commerce, P.O.Box 20, Mapusa – Goa. 403 507

Principal's Details:

Name:Dr. D.B. Arolkar

Contact: (0832) 2268683. (0832) 2268488

Email: dbarolkar@rediffmail.com

College Website: www.dmscollege.ac.in

Vision and Mission Statement:

Vision: "Education for Social Transformation and Nation Building."

Mission statement: "To Proactively contribute towards the creation of an intellectually dynamic society which is committed to excellence, human dignity and the realization of human potential."

Courses offered and sanctioned strength:

- B. A. - 240 ,
- B. Sc.(Computer Science) - 240, B. Sc.(Electronics)- 60, B. Sc.(Chemistry) - 120,
- B. Com.-1,120 ,
- B. B. A. - 80 , B. C. A.- 120,
- M. Com. - 70, M. Sc. – 40.

Any new course(s) started: Ph.D. Commerce, Ph.D. Chemistry

Faculty strength:45.

Achievements of the college:

- In June, 2013, Goa University granted affiliation to our college to start a 'Research Centre in Chemistry' and enroll students for Ph.D. degree.
- The College team won the first place at the Inter-Collegiate Ghumat Aarti Competition organized by our college.
- The college team won the second prize at the 'Students' Parliament Competition' organized by Goa State Legislative Assembly.

Ongoing projects/completed during June 2012 - May 2013:

Sr. No.	Name of Investigator /s	Project Title	Date of Sanction and duration	Funding Agency	Amount (Rs. in Lakhs)
1.	Ms. Aparna P. Lolayekar	'Economic Growth of Goa in the Post Reforms Period : A Sectoral Analysis'	25/01/2012 Two years	UGC	0.55
2.	Dr. Umesh Gawas	Influence of Substitution of Cu and Mn on Magnetic, Electric and Dielectric Properties of $Ni_{0.6-x} R_x Zn_{0.4} Fe_2O_4$ (R = Cu, Mn and X = 0.0-0.6"	15/01/2009 Two years	UGC	1.85

Conferences/Workshops organized:

- Workshop on 'Syllabi Revision in English for B.A., 12th August, 2013.
- Two Day National Workshop on 'Doctoral Research and Academic Writings in Social Sciences', on 28th and 29th October, 2013.
- State level five day workshop on 'The Digital Story Telling', 4th and 8th April, 2014.

Publications: Indian

Research papers in journals 05

Papers presented in Conferences/Seminars/Workshops:

Within India: 03 within Goa: 04

No. of teachers who obtained research degree during the year:

Ph. D.:03

Any other information (Awards/Honours and Special Achievements):

- The NCC cadets of our college Nilesh Volvoikar, Ashok Kaunder and Rima Gadekar have brought laurels to Goa State by representing NCC Karnataka and Goa Directorate at RDC -2014 at Delhi. The honourable Governor of Goa invited these cadets to Raj Bhavan and felicitated them on 19th February, 2014.
- P.O. Cadet Gina Gad, Cadet Sahil Pal, Cadet Akshata Tar are the only cadets from Goa to represent Karnataka and Goa Directorate for RD Parade 2014 at New Delhi.

- Ms. Prashanti Talpankar acted in two Konkani films as supporting Actor's role 'BAGA BEACH' (which won National award 2014) and 'Moortu' (was screened at Melbourne film festival. Both the films were screened at IFFI 2013 at Goa).

Sports Achievements:

- Mr. Shubham Toraskar of F.Y.B.C.A. represented the Indian Team at the International Karate tournament held at Burgas (Bulgaria), Europe, from 16th to 23rd July, 2013.
- Mr. Nolan Desa of S.Y.B.A. participated in the Special Training programme of 'National WUSHU Coaches' from 5th to 15th July at NS, NIS, Patiala, Punjab in Sanshou event.
- Mr. Amulya Pandrekar participated at senior men's KSCA organized by All India Shafi Darashah tournament in Association with GCA from 15th July to 3rd August 2013 at Bangalore. He also played for Goa team in Cooch Behar Trophy, Cricket.
- Mr. Romit Chandramohan Nasnodkar of T.Y.B.B.A. participated in the 3rd Gun for Glory Shooting Competition held at Pune.
- Ms. Manjusha Salgaonkar of S.Y.B.Com. participated in the 15th National Hakuakai Karate Championship 2013, Ahmedabad, Gujarat and won the Gold Medal in Sr. Women Girls Kumite and Individual Kumite.
- Mr. Siddesh Shetye of F.Y.B.C.A. and Miss Nehal Mandrekar of F.Y.B.Com. participated in the National Senior Karate Championship 2014 held at Talkatora Indoor Stadium, New Delhi.
- Mr. Stenzil Souza of T.Y.B.A., Mr. Latesh Mhahale and Mr. Digambar Kauthankar of S.Y.B.Com. and Mr. Sanket Shetgaonkar of T.Y.B.Com. participated in the Junior National Powerlifting Championship 2014 held at Himachal Pradesh.
- Mr. Rohit Chodankar and Mr. Sujay Nachnodkar of M.Com. – II participated in the 26th Senior National Tug of War championship held at Nasik, Maharashtra.
- Miss Sayli Verekar of F.Y.B.Com. participated in Goa-India WUSHU for the Lusofonia Games and also participated in the National WUSHU championship at Rajasthan.
- This year Mr. Aniket Kerkar of T.Y.B.Com. class was bestowed upon 'The Best Sportsperson of Goa University' award. This is the third consecutive year our student has bagged this award.
- Mr. Shubham Toraskar of F.Y.B.C.A. represented the Indian Team at the International Karate Tournament held at Burgas (Bulgaria), Europe.
- Mr. Amulya Pandrekar was a member of the Goa Cricket Team which participated in the Cooch Behar Trophy organized by BCCI.
- Ms. Manjusha Salgaonkar won Gold Medal at the 15th National Hakukai Karate Championship.
- Ms. Sayali Verenkar was a member of Goa India team in WUSHU at the recently held Lusofonia Games.
- Mr. Rohit Chodankar won gold medals in weight and powerlifting competition organized by Goa University.

5.9 Goa Vidyaprasarak Mandal's College of Commerce and Economics, Ponda.

Year of Establishment: 1986

College Address: Farmagudi By-Pass Junction, Ponda-Goa

Principal's details:

Name: Shri. Pravin M. Bhende

Contact No.: 0832-2335875/2335868

Email: pmbhende@gmail.com

College website: www.gvmcommercecollege.com

Vision and Mission statement:

Vision: "To make the Institution a centre of excellence in education and enable the students to take up responsible positions in the society".

Mission: "To make higher education accessible to students especially from rural areas in and around Ponda Taluka and to empower them with knowledge, skills, competencies and values to make them ideal citizens of our country".

Courses offered, sanctioned & filled strength:

B.Com (UG) - 720,

B.C.A. (UG) - 71,

M.COM (PG) - 52

Faculty strength: 39

Achievements of the College:

Our college troupe won first place in Folk Dance competition, Shri. Saish Naik and Ms. Kanya Pavse for Face Painting and Western dance competition and overall championship at Youth Festival organized by "Urba".

Our college troupe also won first place for Ad Mad Show, first place for Train Jam, "So you think I am funny", Spoop it up, Decanacao and second place for Poster Making and first place for Mute Beat organized by PES College, Ponda.

Conferences/workshops organized:

- Orientation programme on "Learning to be an Effective Teacher" 25th August 2013. Workshop on "Accounting" on 11th December 2013.
- Seminar on "Agricultural Growth in Goa - Present Trends and Future Prospects" on 8th January 2014.
- Seminar on "Teaching of English in Institutes of Higher Education" on 13th January 2014.
- Seminar on "Emerging Trends in Mathematics and Statistics & its applications in Commerce" on 7th and 8th February 2014.

- Seminar on “Industry Connect: Teaching –learning through Real Life – case studies” on 8th March 2014.
- Seminar on “Research Data Analysis using SPSS” on 10th and 11th March 2014.
- Seminar on “Academic Performance Indicators, Implications and Applications” on 14th March 2014.
- Seminar on “Research Methodology: Nature and Implications” on 28th and 29th March 2014.

Papers presented in conference/seminars/workshops:

Abroad: 01 within India: 04 within Goa: 05

No. of teachers who obtained research degree during the year:

Ph.D.: 01

Sports Achievements:

- Shri. Saravana Kumar of F.Y.B.Com. won the Bronze medal at the 7th Asian Junior Taekwondo Championship held at Jakarta.
- Ms. Neha Shaik of T.Y.B.Com. won first place in Kumite and Third place in Kata at the 6th National Karate championship held at Chennai.
- Ms. Pragati Kurtikar of T.Y.B.Com. won the Silver medal,
- Shri.Siddharth Kankonkar of S.Y.B.Com.won the Gold
- Shri. Rishikesh Naik of S.Y.B.C.A won the Bronze medal
- Shri.Avind Vaishnav of S.Y.B.Com.won the Bronze medal at the Inter Collegiate Judo Competition.
- Shri. Akash Tompe of F.Y.B.Com. won the Bronze medal at he Inter-collegiate Best Physique competition.
- Ms. Nita Usgaonkar of T.Y.B.Com. won the Bronze medal at the West Zone Tennikoit championship held at Jaipur.
- Shri. Mukund Usgaonkar of F.Y.B.Com. has attended the U-19 Practice matches at Baroda and Hyderabad.
- Shri. Srinivas Fadte of F.Y.B.Com. represented the State in the U-25 col. C.K. Nayudu Trophy tournament held at Tripura and Chhatisgarh.
- Shri. Diptaraj Gaude of F.Y.B.Com. has won the Silver medal at the Tennis Ball cricket championship at Haridwar.
- Ms. Famila Fernandes of F.Y.B. Com. won Gold Medal in Black Belt category at the senior SOAY martial Art championship.
- Kabaddi Men and Women team won the Runners-up at the Inter-collegiate tournament organized by Goa University.
- Life Sports Academy from Chennai conducted a Volleyball clinic to our Men and women team.
- Kabaddi (Men and Women) team won the Runners-up at the Inter-collegiate tournament organized by Goa University on 10th and 11th December 2013.
- Shri. Aqeeb Mulla of S.Y.B.Com. won the Bronze medal at the first Junior National Due Ball championship held at Panipat from 11th December to 16th December 2013.

- Ms. Famila Fernandes has participated as Coach at the 59th National School Sqay Martial Art Championship held at Delhi from 2nd to 8th January 2014. She also represented India (Goa) at the 4th South Asian Sqay Martial Art Championship held at Katmandu, Nepal, from 18th to 20th January 2014 and won Gold Medal.
- Shri. Siddarth Kankonkar of S.Y.B.Com. represented the University in Judo at Amrist-sar from 28th January to 4th February 2014.
- Shri. Lukman Khan of F.Y.B.Com. represented the State at the Jr. National Judo Cham-pionship held at Dehradun, from 17th to 27th February 2014.
- Kabaddi Men and Women team won the Runners-up position at the Inter-collegiate tournament.
- Shri. Srinivas Fadte of F.Y.B.Com. represented the State U-22 South Zone Ram Mohan Rao Cricket tournament held in Goa.

5.10 P. E. S.'s Shri Ravi S. Naik College of Arts & Science, Ponda

Year of Establishment: 1986.

College Address: P. E. S.'s SRSN College of Arts & Science, Farmagudi, Ponda-Goa.

Principals Details:

Name: Dr. A. S. Dinge.

Contact No. : 0832 2335171

Email: pessrsncol@gmail.com

College Website: <http://www.pescollege.com>

Courses offered, sanctioned and filled strength:

- B. A.- 439,
- B.Sc.-378

Faculty strength: 51.

Vision and Mission Statements: Vision: Is to be a Centre of Higher Education, that prepares youth for becoming capable useful and upright citizens, able to face the challenges faced by the country and the global village.

Is to act as catalyst for a holistic development of the rural community

Mission: We aim to achieve our vision.

By ensuring that our faculty is highly qualified and committed to the transference of high levels of knowledge and values to the students.

By promoting activities that inculcate student community interaction for meeting the local needs.

By evolving programmers that will enable the students to find practical applications of the knowledge gained.

By providing an atmosphere where an all round development of personality is possible.

Publications: Indian

Research Papers in Journals 02

Papers presented in Conferences/ Seminars/ Workshop attended:

Within India: 2

Number of teachers who obtained research degree during the year:

Ph. D.: 01

**5.11 Cuncolim Educational Society's College of Arts and Commerce,
Cuncolim**

Year of Establishment: August 1987

College Address: "Shri Pio F. Lawrence Complex", Cuncolim, Salcete Goa 403 703.

Principal's Details:

Name: Dr. Laximan G. Naik

Contact No.: 2865210/9822161242

Email : principal@cescac.in

Website:www.cescac.in/ces

Vision and Mission Statement:

Vision : "To infuse, nurture and develop lasting Values of secularism, democracy and Leadership in our students through Quality education."

Mission : "To impart quality higher education, to our students, so as to faster their development by providing knowledge that will build up enlightened citizens, a Progressive Society and a vibrant nation while giving due Consideration to the Young aspirants of higher education."

Course offered & Sanctioned and filled strength:

- B. A.-193,
- B.COM. - 255

Faculty strength: 21

Achievements of the College:

Accreditation NAAC with "B" Grade CGPA of 2.59

Publications:	Foreign	Indian
Research papers in Journals	03	04

Paper presented in Conferences/Seminars/workshops:

Abroad: 01

Within India: --

Within Goa:03

No. of teachers who obtained research degree during the year:

Ph.D.: 01

Sports achievements:

- C.E.S. College Women Team secured Runners up Position in Inter-Collegiate Tournament 2013-14.
- C.E.S. College Team secured Runners up position at Inter-collegiate Body Building Competition 2013-14.
- Master Suthil Naik Dessai of T.Y.B.A. Secured Gold Medal in Power lifting under 52 kg Weight group.
- Master Abhijit Naik of T.Y.B.A secured Gold Medal in Body Building Competition 2013-14.

5.12 Government College of Arts, Science and Commerce, Sanquelim

Year of Establishment: June 1988

College Address: Govt. College of Arts, Science and Commerce, Sanquelim-Goa.

Principal's Details:

Name: Ms. Lucy James (Offg. Principal)

Contact No: Ph. No. (0832) 2364271

Fax. No: (0832) 2364271

Email: gcascnql@bsnl.in

Vision and Mission Statement:

Vision:“Empowerment For Social Transformation Through Holistic Education With A Humane Approach”.

Mission:“To Initiate Positive Social Change through Equal Opportunity Diverse Approaches, in a Healthy, Responsive & Inclusive Environment.”

Courses offered and sanctioned strength:

- B. A. - 425,
- B. Sc. -236,
- B. Com. - 282.

Faculty strength:37.

Publications:	Foreign	Indian
Research papers in journals	01	04
In Edited Books	---	02

Papers presented in Conferences/Seminars/Workshops:

Within India:04 Within Goa:02

Any other Information:

- Mr. Namdev H. Gawas Associate Professor in Commerce Department received an award “Shiksha Rattan Puraskar” at New Delhi on 24th August 2013 for Meritorious Service, outstanding performance and remarkable role by India International Friendship Society, New Delhi.
- He was Conferred “The Best Citizens of India award 2013” by the International Publishing House New Delhi, the world’s most leading biographical specialist.
- Ms. Sneha S. P. Mahambre, Associate Professor in Marathi Department was felicitated at Konkan Marathi Sahitya Parishad for “Utkrusht Marathi Aadhyapak”

Sports achievements :

- **Lusofonia Games:** One of our student Ms. Snusha Gawas from S.Y.B.Com class has represented Goa State at Lusofonia Games and secured bronze medal in Judo competition held on 24th January, 2014 at Indoor Stadium, Peddem, Goa.

Inter University (Tournaments) Championship:

- Mr. Shubham Rane (F.Y.B.Sc.) represented Goa University in the All India Inter-University Judo Championship 2013-2014 held at Guru Nanak Dev University Amritsar.
- Ms. Snusha Gawas (S.Y.B.Com.) represented Goa University in the All India Inter-University Judo Championship 2013-2014 held at Guru Nanak Dev University Amritsar.

National Level:

- Mr. Harichandra Gaonkar (T.Y.B.Com.) represented Goa State in the Sr. National Te-kouk-ball championship & secured 1st place held at S.M. Public School, Haridwar.
- Ms. Sonali Salelkar (F.Y.B.Sc.) represented Goa State in the Jr. National Kabaddi championship held at Dr. Rajakumar Kabaddi, Hoody, Bangalore.
- Three students of our College Ms. Shilpa Rane(S.Y.B.A.), Ms. Sujjala Padwalkar (F.Y.B.A.) & Ms. Nitisha Gawas (S.Y.B.Sc.) represented Goa State in the Sr. National Kabaddi championship held at Railway Ground Baramati.
- Two students of our College Mr. Rohan Parab and Mr. Shubham Rane have represented Goa State in the Jr. National Judo Championship held at Pestle Weed College, Dehradun.
- Three students of our College Ms. Apeksha Rane(F.Y.B.Com), Ms. Krutika Parab (F.Y.B.Com) and Ms. Rohini Patil (S.Y.B.A.) have represented Goa State in the Jr. National Hockey Championship held at Mysore.
- Three students of our College Ms. Suvarna Majik (F.Y.B.Com), Ms. Sonali Gaonkar (S.Y.B.A.), Sujjala Padwalkar (F.Y.B.A.), Ms. Gayatri Sane (S.Y.B.A.), Ms. Sheryle Fernandes (S.Y.B.A.), Ms. Deepali Majik (S.Y.B.A.), Ms. Rehana Bi khan (S.Y.B.Com) & Ms. Nikhat Mujawar (S.Y.B.Com) have represented Goa State in the Sr. National Hockey Championship held at Bhopal.

State Level :

- One of our student Mr. Jalaladdin Shaikh from T.Y.B.Com has participated at 4th Senior State Level Throwball Championship, 2014 held at Forest Training ground, Valpoi and secured 2nd place.

5.13 Goa College of Home Science, Campal, Panaji

Year of Establishment: 1988

College Address: Opp.of Parade Ground, Campal, Panaji- Goa

Principal's Details:

Name : Dr. Mahesh Pai, Offg. Principal

ContactNo.:2227603, 2425254

Email:Principalgchs@rediffmail

Website:www.goahomescience.gov.in

Vision and Mission Statement:

Vision :Cultivating Erudite Community Builders

Mission: To ensure all round development of students, by instilling in them the Institutes' core values of innovation, excellence and discipline with a thrust on being self-reliant and responsive to the changing trends in Industry and Society.

Course offered, Sanctioned strength, filled strength :

Courses offered: Food, Nutrition & Dietetics, Textiles & Clothing, and Human Development.

Sanctioned strength: 50 Filled strength:43

Faculty strength: 4

Achievements of the College:

100% results for *Textiles & Clothing* and *Human Development*.

Conferences/Workshops organized:

- Workshop "Making the Best of Adolescence", 25th September, 2013.
- Workshop "Vocational Training Workshop for Self-Help Groups", 22nd and 23rd October 2013.
- Workshop "Empowerment of Women - Tie, dye and Batik using Natural Dyes", 16th to 21st December 2013.
- Workshop "Nutrition Education and Health Assessment", 16th January 2014.
- Seminar "Selection and Laundering of Silk Textiles", 17th February 2014.
- National Conference "Issues & concerns of new age families: Repercussions on health, commerce, media & behaviour", 14th & 15th March 2014.

Publications:	Foreign	Indian
Research papers in journals	-	03
In Edited Books	-	01

Papers presented in Conferences / Seminars / Workshops:-

Within India: 02 within Goa: 12

5.14 Government College of Arts, Science & Commerce, Khandola

Year of Establishment: June 1989.

College Address: Govt. College of Arts, Science & Commerce, Khandola, Marcela, Goa.

Principal's details:

Name: Dr. Seema P. Rath, Vice Principal,
Ganeshnagar, Khandola, Marcela, Goa

Website: www.khandolacollege.edu.in

Vision and Mission Statement:

Vision - To be "Centre for Excellence" with the following mission Statement

To promote high standards of education in an environment conducive to the needs of undergraduate students.

To provide undergraduate education that will enable students to be responsive to the needs of an ever-changing society.

To promote the advancement of scholarly and artistic activities for students and faculty.

To foster a culture that supports and reinforces ethical and pro-social values.

To create an environment in which students and faculty find support and encouragement in achieving life.

Courses offered and sanctioned strength:

- B. A. – Sanctioned strength-180& filled strength-180,
- B.Sc. Sanctioned strength-180 & filled strength-133,
- B. Com. Sanctioned strength-420 & filled strength-405.

Faculty strength: 29.

Teachers deputed for higher studies under FIP: 03.

Sponsored Research Projects sanctioned between June 2013 and May 2014.

Sr. No	Name of Investigator/s	Project Title	Date of Sanction and duration	Funding Agency	Amount (Rs. in Lakhs)
1	Dr. Christina De Souza	Unorganised Sector : Social protection of vegetable vendors in Goa.	--	ICSSR	---

Conferences / Workshops organized:

State Level Seminar on “Relevance and conduct of Study Tour” for colleges and Hr. Sec. Schools in Goa.

Publications:	Foreign	Indian
Research papers in journals	--	06
In Edited Books	--	03

Sports Achievements:-

- Ms Marina Albuquerque, Won Runners-up position in Women’s singles and Doubles & winner in the mixed doubles at the All Goa Civil Services Badminton Tournament.
- Ms Marina Albuquerque, won a Bronze Medal in the Women’s doubles at the All India Civil Services Badminton Tournament 2013-2014 at Gandhi- Nagar, Gujarat in October 2013.
- Ms Sujata Gaonkar, won Runners-up position in Women’s Doubles Badminton Tournament organized by Dept. of Sports & Youth Affairs, Govt. of Goa.

5.15 Government College of Arts, Science and Commerce, Quepem

Year of Establishment: June 1989

College Address: Government College of Arts, Science and Commerce,
Quepem-Goa, Pin code 403705.

Principal’s Details:

Name: Prof. B. G. Nayak

Contact No: 08322662342

Email: gcascq @ rediff.com

College Website: http://gcq.ac.in

Vision and Mission Statement:

Vision: To nurture the students, to nourish the society.

Mission: To provide resources for learning, for advancement, creation and dissemination of knowledge this would contribute to a more meaningful society through the growth and all round development of student's personality.

Courses offered, sanctioned and filled strength: B.A., B.Com., B.Sc., M.Com.

Faculty strength: 41

Teachers deputed for higher studies under FIP or on Fellowship of more than three months duration abroad: One

Achievements of the College

Research Centre in Commerce has commenced operation

Sponsored Research Projects sanctioned between June 2012 and May 2013.

Name/s of Investigator/s	Topic	Date of Sanction	Funding Agency	Amount (Rs. In Lakhs)
Dr. Reyna Sequeira	A Sociological Study of Kumbhars of Sivoi, Quepem-Goa Community of Goa	2012-2013 (2 years)	UGC, WRO	0.45
Dr. Reyna Sequeira	A Sociological Study of the Kumbhars of Goa, Senior Research Fellowship of the Department of Art and Culture, Govt. of Goa			2

Conferences/Workshops Organized: 01 day workshop on Visual Editing was organized by the Department of Konkani on 4/1/2014

Publications: Indian

Research papers in journals - 02

In Edited Books - 04

Papers Presented in Conferences/Seminars/Workshops:

Within India: 01 within Goa: 6

No. of teachers who obtained research degree during the year:

Ph.D. - 01

Any other information:

- Dr. Rajay Pawar Invited as a poet at “Goa Arts & Literary Festival” organized by “The International Centre, Goa” held from 5th to 8th Dec. 2013.
- Mr. Hemant Aiya written & Directed a Street Play for Goa Yuva Mohotasav 2014 which won the first place at All Goa Level on 1st Feb. 2014.
- Mr. Hemant Aiya written & directed a Street Play for Election Commission which won 1st Place at both District as well a State level on 15th December, 2013. Same street play was Utilised by Election Commission in various parts of Goa i.e. at Panaji, Mapusa, Margao, Quepem, Curchorem, Sanguem as a part of SVEEP activity of Election Commission.
- Dr. Sushila Mendes: On “Expert Committee for reviewing the Goa Gazetteer’ by the Department of Archives, Archeology and Museum, Government of Goa.
- Dr. Reyna Sequeira, Associate Professor of Sociology published a thesis as a Book titled “**As Dear As Salt**”.
- Brenda Coutinho published a book. ***A matter of Time-Vignettes of a Golden Childhood in Goa***, sponsored by the Directorate of Art and Culture, Government of Goa.
- Dr. Rajay Pawar penned the lyrics for two Konkani films viz. **Mortoo** (Screened at the 44th TFFI, 2013 and **In Search of mother** screened on 5/2/14
- Dr. Ashok Mangutkar, edited and published a book titled **Ramesh Vanskar yanchi Sahitya Seva** on 28/3/14.
- Ms. Asha Mangutkar is a contributor to the preparation of an English-Marathi Dictionary under the aegis of Western Regional Language Centre, Deccan College, Pune.

Sports Achievements:

- **Winners in** Goa University Football Championship (Women), Inter Collegiate Cross Country Championship (Women), third place at Inter Collegiate Cross Country Championship (Men)
- **Runners up in** Goa University Cross Country Championship (Women)

Individual Achievers-

- Karishma Velip bagged the individual gold medal at the Goa University Cross Country Championship (Women)
- Vincy Fernandes bagged the individual silver medal at the Goa University Cross Country Championship (Men)

National Representation-

- Vincy Fernandes represented Goa for the 29th National Junior Athletics Championship held at Bangalore (Karnataka) from 3rd to 7th December, 2013.
- Sagun Gaonkar represented Goa for the senior National Hockey Championship held at Pune (Maharashtra) from 1st to 7th June, 2013.

- Six of our students, Salma Fernandes, Yadnya Pawar, Jenny Monteiro, Nagpushpa Angadi, Macrenna Dias, Deszmina D'Costa, were undergoing football training at a camp organized by Goa University to then represent Goa at the West Zone Inter University Football Championship in the third week of January, 14 in Rajasthan.
- Shri. Vincy Fernandes represented Goa State for the 29th National Junior Athletics Championship held at Bangalore (Karnataka) from 3rd – 7th December 2013.
- Sagun Gaonkar, Represented Goa State for the Senior National Hockey Championship held at Lucknow (UP) from 1st to 7th March, 2014.
- Ms. Salma Fernandes represented Goa University for the West Zone Inter University Football Tournament held at Jaipur (Rajasthan) the team emerged Runners-up & also participated for the All India Inter University Football tournament Hisar Haryana from 16th January to 5th February, 2014.
- Ms. Yadnya Pawar represented Goa University for the West Zone Inter University Football Tournament held at Jaipur (Rajasthan) the team emerged Runners-up & also participated for the All India Inter University Football tournament Hisar Haryana from 16th January to 5th February, 2014.
- Ms. Jenny Monteiro represented Goa University for the West Zone Inter University Football Tournament held at Jaipur (Rajasthan) the team emerged Runners-up & also participated for the All India Inter University Football tournament Hisar Haryana from 16th January to 5th February, 2014.
- Ms. Macrenna Dias represented Goa University for the West Zone Inter University Football Tournament held at Jaipur (Rajasthan) the team emerged Runners-up & also presented for the All India Inter University Football tournament Hisar Haryana from 16th January to 5th February, 2014.
- Ms. Nagpushpa Angadi represented Goa University for the West Zone Inter University Football Tournament held at Jaipur (Rajasthan) the team emerged Runners-up & also presented for the All India Inter University Football tournament Hisar Haryana from 16th January to 5th February, 2014.
- Shri. Nitesh Velip represented Goa State for the 28th Men Senior National Atya Patya Championship held at Chandigarh (Punjab) from 3rd – 5th January 2014.
- Shri. Abhinav Marathe represented Goa State Power Lifting team for the Sub Junior Bench Press Power Lifting Championship held at Jammu (J&K) from 18th Feb. to 21st Feb. 2014.
- Shri. Saurabh Raiker bagged Bronze medal at the Goa State in the West Zone Power Lifting and Bench Press Championship in the 53 kg. weight category held at Ganganagar (Rajasthan).
- Ms. Celly Quadros e Coutinho represented Goa State for the All India Civil Service Badminton tournament held at Gadhinar (Gujrat) from 22nd to 27th October 2013.
- Dr. Rajan Mathew represented Goa State for the All India Civil Service Hockey tournament held at Kururkshetra (Haryana) from 16th to 23rd February, 2014.

5.16 Rosary College of Commerce & Arts, Navelim, Salcete, Goa

Year of Establishment: June, 1990

College Address: Navelim, Salcete, Goa 403707.

Principal's Details:

Name: Rev. Dr. Simão R. Diniz

Contact No.: 9822124121

Email: rosarycollege.1990@gmail.com

College Website: www.rosarycollege.org

Vision and Mission Statement:

Vision: An Educative Community marked by Justice, Cooperation and Integrity.

Mission: To empower young men and women specially the underprivileged as responsive citizens through Holistic Education.

Courses offered, sanctioned and filled strength:

- Commerce – 294,
- Arts – 135,
- Computer Applications – 87,
- Business Administration – 49,
- Business Administration (Travel & Tourism) – 33,
- Masters of Commerce –40.

Faculty strength: 24

Achievements of the College:

100% results in BBA-T & T and M.Com.

The college published the IXth issue of its inter-disciplinary Journal, *GYANA*.

Ongoing projects/Completed during June 2013 and May 2014:

Name/s of Investigator/s	Topic	Date of Sanction	Funding Agency	Amount (Rs. in Lakhs)
Dr. Francis X. Lobo	The Influence of Regular Yogic Practice on Physiological Parameters in the Middle Age Group	11.01.2012 (2 years)	UGC	0.95

Conferences / Workshops / Seminars / Events Organized:

- National Seminar on *Socio-Economic Inequities and the Health Sector* 30th and 31st Aug. 2013.
- National Seminar on *Capital Market-Challenges and Opportunities*, 19th and 20th Sept. 2013.

- Seminar on *Forensic Accounting – Need of the Hour & Emerging Trends in Accounting*, 21st February, 2014.

Publications:	Foreign	Indian
Research Papers in journals	01	06
In Edited Books	---	08
Books	--	01

Papers presented in Conference/ Seminars/ Workshops: Within Goa:05

Sports achievements:

- Nativity Colaco, (FYBCom), 3rd Goa (India) Lusofonia Games held at Goa (Participation), International.
- Anik Naik (FYBCom), 3rd Goa (India) Lusofonia Games held at Goa (2nd Place Long Jump), International.
- Abigail Alvares (SYBCom), Ninoshka Luis,(TYBA),Rovita Fernandes,(SYBA), Inter-University Football Championship held at Jaipur, Rajasthan,(West Zone – 2nd Place), West Zone.

5.17 Saraswat Vidyalaya Society’s College of Commerce and Management Studies, Mapusa

Year of Establishment: 1991.

College Address: Telang Nagar, Khorlim, Mapusa Goa.

Principal Details:

Name: Santosh B. Patkar

Contact No.: 9421157379/(0832) 220042

Email: patkar_santosh@rediffmail

College Website: www.saraswatbba.com/www.caculcollege.ac.in

Vision and Mission Statement:-

Vision: To be a model institution providing for a holistic development of the Individuals with an aim of promoting a healthy and progressive society.

Mission: To impart value added education to nurture creative abilities of our youth, to develop professional competence with a focus on opportunities for individual excellence and the collective wellbeing of the community.

Courses offered and sanctioned strength: B.Com.-530, B.B.A.-152, B.C.A. - 70.

Faculty strength:13.

Achievements of the College:

organised Odyssey – Goa Biggest National Level Mgmt Fest annual event for the 10th consecutive time.

Conference/workshop organized :

Enterprenurship work shop organised in association with I-create & GCCI on Aug 2013.

Publications:	Foreign	Indian
Research Papers in journals	01	01
In Edited Books	---	01

Papers presented in Conferences/Seminars/Workshops:

Within India: 04 within Goa: 02

Any other information (Awards/Honors and Special Achievements):**Mr. Jayesh Churi**

Best Teacher Awarded by Lions Club Mapusa

Sports Achievement at Inter Collegiate level:-

- National and Intervarsity achievement:-
- Santoshi Nemlekar - Volleyball
- Maria lobo - Hockey
- Farheen sheikh - Boxing Silver Medal
- Nagesh Naik -Badminton
- Shanti Kanolkar - Kabaddi
- Natasha Rodrigues - Hockey
- Sheliza D'souza - Hockey
- Sushma Kamble - Hockey
- Snehal Kauthankar - Cricket
- Lakshay Garg - Cricket
- Siddhesh Govekar - Cricket
- Vipul Deshprabhu - Cricket
- Achut Shigwan - Cricket
- Prathmesh Gawas - Cricket
- Pandhari Chopdekar -Football Lusofonia
- Shankar Dhamdhay – Athletics Lusophonia

5.18 Fr. Agnel College of Arts and Commerce, Pilar

Year of Establishment: June 1991

College Address: Pilar – Goa. 403 203

Principal's Details:

Name : Fr. Fredrick Rodrigues

Contact No.: (0832)2218673

Email : fragnelcol@rediffmail.com
principal@fragnelcollege.com

Website:www.fragnelcollege.com

Vision and Mission Statement: Our mission is to provide quality higher education to all including the socially, economically and academically challenged students and through 'Honest Toil' build 'Successful Citizen's in all walks of life who will sustain the ethos of our great country through imbibed values of Truth, Love and Justice to all.

Courses offered and sanctioned strength:

B.A.-60, B.Com.-120 and B.C.A.-40 (self financed).

Faculty strength:-18

Teachers deputed for higher studies under FIP or on Fellowship of more than three months duration abroad: 03

Conferences / Workshops organized: 02

Publications: Indian: 01

5.19 Government College of Arts and Commerce, Pernem

Year of Establishment: 1993.

CollegeAddress:

Sant Sohirobanath Ambiyé, Govt. College of Arts & Commerce, Virnoda, Pernem, Goa.

Principal's Details:

Name: Gervasio S. F. L. Mendes, Acting Principal,

Contact No.: 9421094271, Tel: 2201210 (Off.) 2201762 (Prin.)

Fax: 2201762

Email: gcacpg@yahoo.co.in

gervasiom83@gmail.com

gervasiomendes@rediffmail.com

Website: www.govtcollegepernem.org.

Vision and Mission Statement:

Vision: Knowledge and virtue for peace and progress

Mission: To empower the youth; promote excellence in all our endeavours; and develop service-minded citizens of the country and the world.

Courses offered and sanctioned strength: B. A. & B. Com.

Faculty Strength: 15.

Sports achievements:

- The college won the Gold Medal in the Inter-Collegiate Judo Competition organized by the Goa University on 3rd August, 2014.
- The College won the Bronze Medal upto 105 kg Wt. Category Weight Lifting Championship, organised by the Goa University on 20th August, 2013.
- The College won the Bronze Medal in the 59 Kg. Wt. category and Bronze Medal in the above 120 Kg. Wt. category for Power lifting Championship, organised by the Goa University on 21st and 22nd August, 2013.
- At the Inter-Collegiate Athletic meet conducted by the Goa University, Ms. Apurva Parab (F.Y.B.Com) won the Bronze Medal at the Triple Jump event (Women).
- The XX Athletics Meet 2013-14 held at Sawal-wada ground Pernem, organised by the Sports Department of the college was conducted on 30th November, 2013 (Trials/Heats) and 12th December, 2013 (Finals).

Publications:

Research papers in journals

Foreign

Indian

02

--

In Edited Books

--

03

Books

01

--

Papers presented in Conferences/ Seminars/ Workshop:

Abroad	Within India	Within Goa
0	02	06

Any other Information:

- Dr. Gervasio S.F.L. Mendes, Acting Principal is awarded Post Graduate Diploma in Management by the Goa Institute of Management, Poriem, Sattari, Goa on completion of the three year Part Time Executive Programme.
- Mrs. Roshan Usapkar, Associate Professor in Commerce is Awarded the Best Paper award for the paper titled "Appraisal of investment Avenues: An Empirical Study of selected investors in Bardez Taluka in a conference on Emerging Trends in Business 2013 organised by Christ University Bangalore on 12th – 13th December, 2013.
- Mr. Sam Joseph Braganza, Director of Physical Education won a Gold Medal in 50 mts. Breast Stroke and a Silver Medal at 50 mts. Freestyle at the all Goa Civil Services Swimming Competition 2013-14 organised by Directorate of Sports and Youth Affairs, Campal, Panjim.

Sports Achievements:

- Mr. Gauresh Shetye and Mr. Pravin Nanoskar, both of F.Y.B.A. and Mr. Saish Arolkar and Mr. Prathamesh Dhargalkar, both of F.Y.B.Com. represented Goa at the 32nd National Shooting Ball Championship held at Indore, M.P. from 14th to 16th January, 2014.
- At the 11th State Shooting ball championship 2013-14, organised by the Shooting ball Association of Goa, on 19th January 2014, the College Shooting ball boy's team won the Championship for the Under – 19, Junior Boys Category.
- Mr. Rajesh Parab, Mr. Vishnudas Parab and Mr. Sitaram Parsekar all of S.Y.B.A. represented Goa State at the 11th Senior National Flying Disc Championship 2014 for men at Bhubaneswar, Odisha from the 31st of Jan. to the 2nd of Feb. 2014.
- Mr. Nivrutti Parab of S.Y.B.Com represented the Goa State team at the Bench Press, Power Lifting Championship 2014 held at Jammu, from 20th to the 24th of Feb 2014.

5.20 Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts & Commerce, Canacona

Year of Establishment: 1993

College Address: Delem, Canacona, Goa 403702

Principal's Details:

Name: Dr. F. M. Nadaf

Contact No: 0832-2633433, 9765459914,

Email: fmnadaf@rediffmail.com

College website: www.shreemallikarjuncollege.in

Vision and Mission Statement:

Vision: To emerge as the torchbearer in the learner-centric Quality Higher Education through unstinted commitment and dedicated efforts continuously evolving to better the BEST.

Mission: To strive for community development through empowerment of individuals by providing opportunities for learning life's education and lead by example.

Courses offered, sanctioned and filled strength: B.A.-540 & B.Com. -430

Faculty strength: 16

Teachers deputed for higher studies under FIP or on Fellowship of more than three months duration abroad: 02

Shri. Arvind Haldankar, Associate Professor of Sociology

Ongoing projects/ Completed during June 2013 - May 2014:

Name of Investigator/s	Project Title	Date of Sanction And duration	Funding Agency	Amount (Rs) Lakhs
Dr. F. M. Nadaf	Western Ghats of Goa: A Geographical Diagnosis	28 th August 2012 24 months	University Grants Commission	1.25

Conferences/Workshops Organized:

- One day Regional Seminar titled, 'Science and Technology in search of Ethical Values' on 15th February 2014
- Two days workshop on the theme "Revitalizing and Reorienting Geography Education in India on 28th and 29th March 2014.
- One day workshop on "Exploring Wikipedia" on 10/12/2013.

Publications:

Research papers in journals: 09 (Indian)

Papers presented in Conferences/Seminars/Workshops:

Within India: 02 Within Goa: 02

No. of teachers who obtained research degree during the year:Ph.D.:01

Any other information:

Mr. SavioLeitao, has passed the National Officiating Test in Athletics and is selected as Official for the Lusofonia Games.

5. 21 Narayan Zantye College of Commerce, Bicholim

Year of Establishment: June, 1994

College Address: Vathadev, Sarvan, Bicholim – Goa
Post: Industrial Estate Pin: - 403 529

Principal's Details:

Name: Shri Rajesh Amonkar is the (Offct. Principal)

Contact No: Phone No: 9823618272 (O): 2361377/2363769

Email: asmnad3@rediffmail.com

College website:www.zantyecollege.ac.in

Vision and Mission Statement: Vision:To be the Centre of Best Quality Education and Research.

Mision:We at Zantye College are committed to impart and innovate Education, direct our inputs into productive outputs and to develop socially responsible citizens for our Nation.

Courses offered, sanctioned and filled strength: B.Com. -533, M. Com.-80

Faculty Strength: 13

Conferences/Workshops Organised:

- Workshop : Topic “ **Change The Mindset**” Date : 29/08/2014
- State Level Seminar : Topic “ **Role of Physical Education on Sustainable Good Health**” Date : 03/09/2013
- National Seminar : Topic “ **Derivatives Market : Opportunities & Challenges**” Date : 01/03/2014
- State Level Workshop : Topic “ **Digital Library and e-Resources**”
Date : 15/03/2014.

Publication :Foreign

Research Papers in Journals 01

Papers presented in Conferences/Seminars/Workshops:

Abroad: 01 Within India: 02

Sports Achievements :

- Mast. Tanvesh Vengurlekar and Miss Swapnila Halarnkar were selected in Goa Kabaddi Team for inter state Kabaddi tournament.
- Mast. Sunny Kanekar was selected in under 25 Goa Cricket team for inter state Cricket tournament.
- Mast. Tanvesh Vengurlekar was selected as torch runner for 3rd Lusofonia games.
- Miss Divya Naik and Miss Roopam Sancoalkar were selected in under 19 Goa Cricket team.

5.22 Govt. College of Commerce, Borda, Margao

Name of the College: Government College of Commerce, Borda, Margao

Year of Establishment: June, 2010

College Address: Borda, Margao, Goa-403602

Principal's Details:

Name: Dr. Renji George Amballoor

Contact No: 0832-2700555 / 9421247960

Email: gcc.margao@gmail.com

Vision and Mission Statement:

Vision: To Yoke together Educational Opportunities with Social Aspirations for Inclusive growth and to instill in students a lifelong love for learning.

Mission: From producing talents to Nurturing talents.

Courses offered, sanctioned and filled strength: Two divisions FY, SY, TY B.Com. 60 students each.

Faculty strength:03

Achievements of the College:

The College has signed a Memorandum of Understanding (MoU) with Adarsha Institute of Management, Fatorda, on 11th October, 2013 for Collaborative Research& Publication, Faculty Development Programme, Trainings for student, Using & sharing library resources & for start-up mentoring.

Provided a month long industrial internship in October- November, 2014 for 35 T Y B Com students at 15 industrial units.

Ongoing projects/ Completed during June 2013 – May 2014:

Sr. No.	Name of Investigator/s	Project Title	Date of Sanction and duration	Funding Agency	Amount (Rs in Lakhs)
1	Dr. Renji George Amballoor	Socio- Economic & Demographic Impact of Urbanization	Oct 2013-Oct 2015 2 years	Directorate of Art & Culture, Government of Goa	1.44

Sports Achievements:

- Mr. Salman Shaikh won Silver medal at 22nd All Goa State level Taekwondo Championship . He has also represented Goa University at the inter-University Taekwondo Championship held at Chennai.

5.23 Vikas Parishad, Mandrem College of Commerce, Economics and Management, Pernem

Year of Establishment:2012.

College Address:Dev Mandrekar Nagar, Mandrem – Goa.

Principal's Details:

Name: Shri Gopalkrishna G. Kondli

Contact No.: 9422446993

Email: gopal_kondli@yahoo.co.in

College Website: www.mandrecollege.ac.in

Courses offered, sanctioned and filled strength: B.Com. – 70

Any new course started: Applied for permission to start B.A. programme for the year 2015-16.

Other In formation:

Net/Set guideline workshop

Memorial Lectures in Honor of Late Shri D.B.Bandodkar – First of its series –Dyan Ganga Te Akash Ganga – Speaker Dr. Nandkumar Kamat, Scientist, Educationist.

5.24 Swami Vivekanand Vidya Prasarak Mandal's College of Commerce, Bori, Ponda.

Year of Establishment: 2013-2014.

College Address: Shirshirem, borim – Ponda Goa. 403401.

Principal's Details:

Name: Not yet appointed

Contact No: 08322333029

Vision and Mission Statement: Equip our students with knowledge and skills, while inculcating values, helping them identify their hidden talents.

Courses offered, sanctioned and filled strength: B.Com. – 101, BBA - 11.

5.25 Shree Sateri Pissani Education Society's Shri Gopal Gaonkar Memorial Goa Multi-Faculty College, Dharbandora.

Year of Establishment: 2013-2014.

College Address: NH-4A, Ponda-Belgaum Road, Dayanand Nagar, Tal. Dharbandora, District-South Goa. 403 406.

Principal's Details:

Name: Dr. Manasvi M. Kamat

Contact No: 0832-2344064, 2344062 / 09422415052

Email: mnasvikamat@gmail.com

College Website: gmfcgoa2013@gmail.com

PROFESSIONAL COLLEGES

5.26 Don Bosco College, Panaji

Year of the Establishment: 2001

College Address: M.G.Road, Near Municipal Market, Panaji-Goa

Principal's Details:

Name: Dr. (Mrs.) Marie Raj

Contact No: 9890651680/6644321

Email: marieraj19@rediffmail.com

College website: www.donbosco.goa.org

Vision and Mission Statement:

Vision: Virtue and Excellence

Mission: To provide youngsters an integral formation of academic professional and human commitment.

Courses Offered, sanctioned and filled strength:

- B.C.A-50, BBA(Travel & Tourism)-18,
- B.A.M.M.-21,
- B.B.A-44,
- B.S.W.-05,
- B.P.Ed-50.

Faculty Strength : 22

Achievements of the College:

1st at 'Synergy' organized by the MES College of Arts & Commerce, Zuarinagar, 17 - 18 January 2014.

Conference/Workshop Organized:

Workshop for all BCA Lecturers of Goa to discuss the Revised Syllabus for Management Information Systems and Graphical User Interface Lab, 5, 13 & 17 December 2013 respectively.

Publications:

Research Papers in journals –

Indian

04

Any other information:

Don Bosco College is a member of the Travel and Tourism Association of Goa (TTAG), Goa Chamber of Commerce and Industry (GCCCI), Computer Society of India (CSI), American

Centre, Mumbai and International Association of Don Bosco Institutions of Higher Education (IUS), American Centre etc.

Sports Achievements:

- Women's Hockey Team were winners at the Inter-collegiate Hockey Tournament 2013-14 organised by the Goa University.
- Mr Aaron Pereira won a Gold Medal in the Men's Volleyball Team at 3rd Lusofonia Games 2014.
- Mr Aniket Kerkar won 4 Gold Medals in the Intercollegiate Power Lifting and Weight Lifting Championship (in 59kg and 56kg category respt.) and won the Title of "IRON MAN" and "STRONGEST MAN."
- Ms Lysha Fernandes won Gold in the Inter-collegiate Taekwondo Championship.
- Ms Malvita Mascarenhas participated for the West Zone Inter University Football Women's Championship 2013-14 held at Rajasthan and the team was the Runner-sup.
- Ms Minaxi Karapurkar, Ms Darshana Gawas, Ms Sonal Shetyekari and Ms Lysha Fernandes won a Gold Medal in 4x100m Relay.
- Ms Minaxi Karapurkar won Gold Medal in Triple Jump and 100m Hurdle.
- Ms Darshana Gawas won Gold Medal in Long Jump and 100m Sprint
- Mr Aniket Kerkar won Gold Medals in the State Weightlifting Championship (56kg Category)
- Mr Ashish Shirodkar won Gold Medal in the State Weightlifting Championship (in 62kg Category)
- Mr Ashish Shirodkar won Gold Medal in the Intercollegiate Weightlifting Championship (in 62kg Category)
- Ms Lysha Fernandes won 2 Gold and 1 Silver Medal in the 22nd Goa State Taekwondo Championship and 2nd Poomsae Taekwondo Championship Organised by T.A.G.
- Mr Aaron Pereira won Silver Medal in Shot Put.
- Ms Shubhada Shilkar won a Bronze Medal in the Intercollegiate Judo Championship.
- Ms Sneha Naik won Silver Medal in the 24th Senior National Tennis Ball Cricket Championship 2013-2014 held at Ranchi, Jharkhand
- Girls Football Team was winners at the 2nd Don Bosco Oratory Inter Collegiate Football Tournament 2013-14.
- Girls Football Team was Runners up at the Inter-collegiate Football Tournament 2013-14 organised by the Goa University.
- Boys Football Team were Runners up at the Inter-collegiate Football Tournament 2013-14 organised by the Goa University.
- Boys Football Team were winners at the 9-a-side Football Tournament 2013-14 organised by Salgaonkar College of Law
- Ms. Sonali Shetyekar won Bronze Medal in 200m
- Woman Team was Runners up at the Inter Collegiate Athletic Championship
- Ms Manjita Mathkar participated in 3rd Lusofonia Games 2014 and won a Gold Medal.

5.27 Goa College of Pharmacy, Panaji

Year of Establishment: 1963

College Address: Goa College of Pharmacy, 18th June Road, Panaji, Goa-403001.

Principal's Details:

Name: Dr. Gopalkrishna Rao

Contact No.: 0832-2226883.

Email: gcpprincipal@yahoo.com.

College website: www.gcp.goa.gov.in

Vision and Mission Statement:

Goa College of Pharmacy, a prestigious institute established by the Government of Goa offers Pharmacy Council of India(PCI)/ All India Council for Technical Education (AICTE) approved courses in pharmaceutical technology. This premier institute endeavors to impart advanced technology education in the discipline of Pharmacy in order to synchronize with the motto "EDUCATION WITH EXCELLENCE"

We are committed to:

Develop the institute as a world class learning center.

Provide quality human resource.

Keep the budding pharmacists abreast with the latest advancement in the pharmceual, medical and technological fields.

Collaborate with the industry for sustainable partnership, contract research and development.

Modernize and upgrade the institutional infrastructure.

Impart continuing education programmes to fulfill the needs of working professionals/Non-Government organizations.

Conduct Doctoral and Post Doctoral Programmes in Pharmaceutical and Clinical Practice.

Render community services especially to the rural masses.

Establish linkages with alumni for institutional development.

Our Core Value:

Impart intellectual and value based education with emphasis on Pharmaceutical ethics.

Courses offered and sanctioned strength:

- B. Pharm. - 65,
- M. Pharm. – quality assurance -13,
- Pharmacology - 05,
- Pharmacognosy – 05.

Faculty strength: 30

Achievements of the College:

Institution recognized as Ph.D. Centre.

Ongoing Projects /Completed during June 2013 - May 2014

Sr. No.	Name of Investigator/s	Project Title	Date of Sanction and duration	Funding Agency	Amount (Rs in Lakhs)
1	Dr. Gopalkrishna Rao	Science of Scientific Writing for publication in international journals	2012-13	All India Council for Technical Education(AICTE)	2
2	Dr. Arun B. Joshi	Photochemical and Pharmacological investigation of the Plant Desmodium Oojeinense (ROXB) H. Ohashi	2012-13 (3 years)	Dept. of Science, Technology & Environment (DSTE), Govt. of Goa	9
3	Dr. M.P. Joshi	Strengthening of PG Pharmacology Laboratory	27/02/2013	All India Council for Technical Education (AICTE) Seminar Grant (MODROBS	7.85
4	Dr. Sanjay Pai P.N	Modernisation of facilities at Pharmaceutical Analysis laboratory	2012-13 1 year	All India Council for Technical Education (AICTE) MODROBS	2

Conference/Workshop Organised:

National Seminar on Science of Scientific writing on 22nd and 23rd March 2014.

Publications:

Research papers in journals

Foreign:

36

Indian:

08

Papers Presented in Conference/Seminars/Workshop:

within India: 03

Sports Achievements:

- Ms. Bernice Rodrigues, a B.Pharm. student had participated in 20th Junior National Netball Championship held from 7th Jan. to 10 Jan. 2014 in Gujarat.
- Ms. Sonali Kerkar, a B.Pharm. student had participated in First National Beach Throwball Championship held from 31/01/14 till 02/02/2014 in Tamil Nadu.

5.28 Goa College of Engineering, Farmagudi

Year of Establishment: 1967

College Address: Farmagudi, Ponda – Goa

Principal's Details:

Name: Dr. V. N. Shet

Contact No.: 0832-2336401

Email:pp1@gec.ac.in

College Website: www.gec.ac.in

Vision and Mission Statement:

Vision: - Set High Academic standards in engineering education and research and accomplish this goal.

Mission: - Establish high quality engineering programmes in partnership with other eminent institute of national importance and train students to become leaders and managers of technology with academic excellence.

Courses offered sanctioned and filled strength:

- B. E. Civil Engg. Sanctioned – 60; Filled-67,
- B. E. Mech Engg. Sanctioned – 60; Filled-66,
- B. E. Electrical & Electronics Engg. Sanctioned – 60; Filled-64,
- B. E. Electronics & Telecommunication Engg. Sanctioned – 60; Filled-63,
- B. E. Computer Engg. Sanctioned – 60; Filled- 64,
- B. E. Information Technology Engg. Sanctioned–60; Filled-63,
- B. E. Mining Engg Sanctioned.- 30; Filled-18,
- M. E. Foundation Engg. Sanctioned – 18; Filled- 18,
- M. E. Industrial Engg. Sanctioned – 18; Filled-12,
- M. E. (ETC) ECI Engg. Sanctioned – 15; Filled- 13,
- M. E. (ETC) Microelectronics Engg. Sanctioned – 15; Filled- 15,
- M.E. Power & Energy Sanctioned – 18; Filled- 12,
- M. E. Computer Sci. Engg. Sanctioned – 18; Filled- 18, InD. Auto. & RF Sanctioned – 18; Filled- 06.

Any new course(s) started: Ph. D.in Civil Engg., Mechanical Engg., Electrical & Electronics Engg., Electronics & Telecommunication Engg., Computer Science & Engg.

Faculty strength: 92, Contract: 60

Ongoing Projects/Completed during June 2012-May 2013:

Sr. No.	Name of Investigator/s	Project Title	Date of Sanction and duration	Funding Agency	Amount (Rs in Lakhs)
1	Dr. K. G. Guptha & M/s Sociedade De Fomento Industrial Pvt. Ltd	To study utilization of Tailing & Mining waste as building Materials (Bricks.),etc.	23 rd August 2013		30
2	Dr. Ganesh Hegde, Dr.K.G.Guptha, Prof. Vikas Chodankar	Monitoring of Zuari bridge,		PWD	45
3	Dr. Ulhas Savoikar	Setting up of STP for GEC campus & surrounding areas at Farmagudi	5 th Sept. 2014		27

Sponsored Consultancy Work undertaken:

The total of Rs. 619,562/- worth sponsored consultancy work related to civil Engineering field were offered / carried out with a professional service/ advice to different companies like, Konkan Railway Corporation, Simplex Infrastructure limited, PWD, Panajim, JPL Infrastructure Pvt. Ltd., Airport Authority, Dabolim, Ultratech cement, Vascon Enterprises Ltd. Following faculties from the department were involved in offering professional advice. Dr. K.G.Guptha, Dr. Purnanad P. Savoikar, Dr. A.K.S.Bhadauria Dr. Ulhas Savoikar, Dr. Ganesh Hegde, Prof. Wilma Fernandes, Prof. Vikas Chodankar, Prof. H.S.Prasanna Kumar

Conferences/ Workshop Organized:

- Guest lecture on Construction Project Management, 18th -19th April 2014
- GGBS for durable concrete, 23rd July 2013.
- Organised ISTE two weeks course for engineering faculty on "OPTIMIZATION TECHNIQUES" from 17th to 28th June 2013.(by mech engg dept)

Publications:

E & E	Foreign	Indian
Research Papers in Journals	--	11
Books	--	04

Papers Presented in Conference/Seminars/Workshop:

Abroad	Within India	Within Goa	
CIVIL	02	06	nil
MECH	01	03	03
E & E	nil	04	03
ETC	10	08	---
COMP	nil	02	03

Number of teachers who obtained research degree during the year:

Ph.D.: 05

Any other information:

- Department was specially involved in salvage of five story building -Ruby Residency collapse case, Canacona- Department professional Service were offered on Government instructions. **Dr. K.G.Guptha, Dr. Ganesh Hegde, Prof. Vikas Chodankar, Prof. H.S.Prasanna Kumar** these faculties members were involved in Professional Service , January 2014.
- Dr. Purnanand P. Savoikar, UKIERI Project lead by GPB and University of Bath – Educational Research Initiative between British Council & Govt. of India.
- **Dr. K. G. Guptha, Dr. Ganesh Hegde, Prof. Smita Aldonkar**, Chemical disaster Mock drill at ZACL – under disaster management, 1st October, 2014.
- Indigenously invented brick from mines waste – production at campus brick plant at GEC – Mr. Ambar timblo – CEO of Timblo group, 8th May 2014.

Sports Achievement:

- Bset Physique:Men, One Bronze Medal.
- **Chess:** Men/Women, Runner Up
- **Swimming:** Men/Women, Runners Up, 1 Gold, 2 Silver, 2 Bronze
- **Power Lifting:** Men, One Silver Medal
- **Best Physique:** Men, One Bronze Medal.
- **Athletics:** Women: Runner's Up in Javelin Throw
- **Basket Ball:** Women: Runner's Up
- Volleyball: Men, Runner's Up

Sports Achievement Other than Goa University

- GautamiU. Gaus Gaonkar, Badminton, Semi-finalist -women singles, 13th- 17th October 2014
- Manasi S. Mungi ,Badminton, Winner – Mix doubles & Semi-finalist - women singles, 13th- 17th October 2014.
- Pradnya Singbal, Badminton, Runner up- Mix doubles, 13th- 17th October 2014.
- Akshata Kudchadkar, Badminton, Semi-finalist – Mix doubles, 13th- 17th October 2014.
- Smita Aldonkar, Badminton, 3rd place in women doubles at Goa state civil services, 27th – 29th October 2014.

5.29 Nirmala Institute of Education, Panaji

Year of Establishment: 1963

College Address: Altinho, Panaji – Goa, 403001

Principal's Details:

Name: Dr. Rita Paes

Contact No: 9421150675

Email: niegoa@gmail.com

College website: www.nirmalainstitute.org

Vision and Mission Statement:

Vision Statement: “The Nirmala Institute of Education forges ahead in its prime endeavor to instill a sense of vocation in teachers and professionals in allied fields; to empower them to achieve their highest potential through a spirit of commitment to standards of excellence and to nurture universal values that will lead to social transformation in the local, national and global context.”

Mission Statement:

To help prospective teachers discover and appreciate their unique vocation in society.

To provide prospective teachers with a stimulating and catalytic environment that is both futuristic in outlook and holistic in perspective for the achievement of excellence.

To provide theoretical knowledge interwoven with a repertoire of pedagogical practices, hands-on teaching experience and the inclusion of technology as a teaching and learning tool.

To nurture in prospective teachers universal values that include a commitment to social justice and an understanding of the strengths and needs of a diverse student population.

To re-vitalize education through partnership with different educational agencies and universities.

To draw out latent talents and creativity through varied co-curricular programmes.

To propagate best practices in education through in-service training programmes organized by the Department of Extension Services as well as through Extra Mural Programmes.

Courses offered, sanctioned and filled strength:

- B. Ed.-100,
- B. Sp. Ed.-25,
- PGD in Guidance & Counselling-15.

Faculty strength: 10

Achievements of the College:

Conferences/Workshops Organized:

- Educating Young Students for Social Consciousness and Social Responsibility - 25th-27th November, 2013.
- Problems of Indian Society (IGNOU-B.Ed 2nd year NIE Study centre), 30th April, 2014.
- “The How and Why of Teaching History” – NIE - Dept. of Ext. Services, 18th & 19th March, 2014.
- Brain-based teaching for Science Teachers-NIE - Dept. of Ext. Services, 15th & 22nd March, 2014.
- Managing our Water Resources NIE – Dept of Ext. Services, 24, 25th & 26th March, 2014.
- Formulation of plan & preparation of group reports on school education to solve social problems, 30th April, 2014.
- Various aspects of open schooling with the help of case studies, 4th May, 2014.
- Education and School Administration structure in different States, (IGNOU – B.Ed NIE Study centre), 5th May, 2014.
- Meeting Educational Challenges Through Text Book Modification (in English, Mathematics and History subjects)- B.Ed Special Education, 4th April, 2014.
- Nature of Autism and Appropriate teaching strategies – B.Ed Special Education, 26th to 28th March, 2014.

Publications:	Foreign	Indian
Research papers in journals	---	02
In Edited Books	----	01

Papers presented in Conferences/Seminars/Workshops:

Within India: 02 Within Goa: 05

No of teachers who obtained research degree during the year:

Ph.D: 02

Any other information:

LUSOFONIA Games-In view of the Lusofonia Games, student trainees who came forward as Volunteers were trained by the Concerned officials. The Volunteer participants had a memorable experience during this sporting Event.

5.30 Goa College of Art, Altinho, Panaji

Year of Establishment: 1972

College Address: Altinho, Panaji.

Principal's Details:

Name: Shri Mahesh V. Vengurlekar

Contact No.:2226104

Email: goacollegeofart@gmail.com

Website: goacollegeofart.com

Courses offered and sanctioned strength: B. F. A. (Painting) - 20, B. F. A. (Applied Art) 30.

Faculty strength: 13

Conferences/Workshops Organised:

Workshop on Drawing and Illustration, 06th to 10th Jan. 2014.

Any other information:-

Goa College of Art had the honour of designing and creating panels of artworks and installations for the New Terminal at the Dabolim Airport, Goa. The teaching faculty, present and past students of our Institution worked together in teams to prepare these artworks.

Sports achievement:

- Mast Rohitesh Manjrekar and Rahul Mayenkar bagged the 1st and 2nd places respectively in Best Physique at the Goa University, Rosary College of Arts and Commerce, Navelim and in Damodar College they shared the 1st place, in month of September 2014
- Sam Fernandes won the Bronze Medal in Power Lifting at the Goa University while Jedroy D'Cunha won the 2nd place at Damodar College, Margao.
- In March, 2014 Aarti Kurtarkar, the Tennis Cricket Ball Star, bagged the 1st place in the 12th Senior State Tennis Ball Cricket organized by the sports Authority of Goa and 3rd place in the 23rd Senior National Tennis Ball Cricket held in Uttar Pradesh.
- In January Annapoona Mallya has participated in Judo at the International Lusofonia Games held in Goa.

5.31 V. M. Salgaocar College of Law, Miramar

Year of Establishment: 1973

College Address: P.O. Caranzalem, Miramar - Panjim, Goa, 403 002

Principal's details:

Name: Dr. Kotagiri S. Rao

Contact No: 2462225/9420596600

Email: vasu123goa@gmail.com

College Website: www.vmslaw.edu

Vision & Mission Statement: Let justice be done though the heavens fall and Excellence in legal education in pursuit of justice and service to humanity.

Courses offered: B. A.LL.B, LL.B.(Degree) and LL.M.

Faculty strength: 10

Publications:

Research papers in Journals

Indian

12

Papers presented in Conference/Seminars/Workshops:

Abroad: 01 within India: 03 within Goa: 02

No. of teachers who obtained research Degree during the year:

M.Phil: Nil Ph.D: 01

5.32 Govind Ramnath Kare College of Law, Margao

Year of Establishment: 1979.

College Address:P.O. Box No. 777, Tansor, Comba, Margao-Goa, 403601

Principal's Details:

Name: Arun Sazu Nadkarni

Contact No: 9850455385

E-mail:principal,grkcl@vvm.edu.in

College website: www.grkarelaw.edu.in.

Vision and Mission Statement:

Vision – To be a centre of excellence providing quality legal education and to develop professionalism with social commitment

Mission – To lead the way in legal education through innovative teaching and learning experiences and to create legal professionals with qualities of commitment towards society, social justice and ethical values.

Courses offered and sanctioned strength:

- L.L.B. (Degree) – 165,
- L.L.B. (Hons.) – 175,
- LLM – 41.

Faculty positions: 06.

Papers presented in Conferences/Seminars/Workshops

Within Goa: 02

Sports Achievements:

- Rohan Naik- Student, F.Y.LL.B. Degree Class has represented Goa State in 52nd Junior National Body building Championship organized by Jyothy Youth Club,,Hyderabad, District Body Building & Fitness Association of Ranga Reddy & Telangana Amature Body Buiding Association, Hyderabad.

5.33 Goa Dental College and Hospital, Bambolim

Year of Establishment: 1980

College Address: Goa Dental College & Hospital,
Bambolim Goa: - 403 202.

Principal's Details: Dr. Ida De Noronha De Ataide, Dean, H/9, Landscape City,
Alto Porvorim-Goa-403 521.

College Website: <http://gdch.goa.gov.in>

Courses offered & sanctioned strength:

BDS – 40 seats.

MDS 15 seats

Faculty strength: 40

Conference/Workshop Organized:

- Seventh International students and first Dental Surgeons Congress on 28th and 29th March 2014.
- 11 Goa State Dental Conference 27th -29th Sept. 2013.
- IDA CDE Programme on CBCT & Oral Pathology in Clinical Practice from 23rd June, 2013 at Goa Dental College & Hospital.
- IDA CDE Programme on Implants & Periodontics in July, 2013 at GDC&H.,

- National level Workshop on “Current trends and recent advances in implant Prosthodontics held on 22nd and 23rd February, 2014.
- CDE Programme on ‘Research Methodology & Medical Ethics’ on 21st & 22nd Sept, 2013.

Publications: 37

Papers presented in conference/seminars/workshops: 28

Other information:

- Dr. Sandeep Lawande conferred ‘RAASHTRIYA SAMAAJBHUSHAN AWARD – 2013’ by Shikshak Vikas Parishad at the 19th All India Educational Conference held at Belgaum, Karnataka in October, 2013, in recognition of meritorious achievements in the field of Dentistry.
- Dr. Ida de Noronha de Ataíde was awarded the post proactive teacher in the senior category by Guident during the 7th International Students’ and 1st Dental Surgeons Congress held on 28th & 29th March, 2014, at Kala Academy, Panaji – Goa.
- Dr. Rajan Lambor was awarded the most proactive teacher in the junior category by Guident during the 7th International Students’ and 1st Dental Surgeons Congress held on 28th & 29th March, 2014, at Kala Academy, Panaji – Goa.
- Dr. Renita Soares was awarded the best paper prize for paper titled “ Management of a fractured tooth by fractured reattachment: case reports” at the 11th Goa State Dental Conference, 27th - 29th September, 2013.
- Dr. Mayuri Naik & Dr. Achut Pandav bagged the best poster award for the poster titled “Root refurbishing” which was presented at the 28th IACDE & 21st IES National Conference held at Hyderabad, from 14th – 17th November, 2013.
- Dr. Mayuri Naik, was awarded the Best PG Student in the field of Endodontics by Guident during the 7th International Students’ and 1st Dental Surgeons Congress held on 28th & 29th March, 2014, at Kala Academy, Panaji,

5.34 Goa College of Architecture, Altinho, Panaji

Year of Establishment: 1982

College Address: Goa College of Architecture, Altinho, Panaji, Goa.

Principal’s Details:

Name: Dr. A K Rege

Contact No: 2227144, 2436435

Email: gca.principal@gmail.com

College website: <http://gcarch.goa.gov.in> & Email ID- gca.principal@gmail.com

Vision and Mission Statement:

Vision: To establish a cultural climate to promote and encourage learning attitude within the college community and to initiate a process for establishing of a language of architecture that is relevant to Goa in this millennium.

Mission:

1. To educate the students in the subjects of architecture with in the given cultural context.
2. To equip them with the knowledge and skills required to make meaningful, innovative and appropriate interventions in to the environment through building design.
3. To instill in them the competence and confidence to enable them to contribute in innovative and constructive ways to the development of Goa and India.

The Citizen's Charter gives insight in to our VISION FOR THE FUTURE, the STRATEGY for the development and the FACILITIES available in the institute.

Our aim is to take the location advantage of Goa and embark upon an expansion program with the aim of becoming one of the 10 top Institutes in the country by the end of this decade. With this perspective in the mind the new curriculum for B. Arch was introduced at the Under-Graduate level in the year 2013-14.

Courses offered, sanctioned and filled strength: Bachelors in Architecture (5 years degree course), Sanctioned strength 40 (+4), Filled strength 40 (+2).

Faculty strength: 11, Contractual Faculty: 4 Nos.

Achievements of the College:

The students got an overall 2nd prize trophy for the Zonal NASA at Mysore.

Conferences/Workshops Organized:

- July, 2013, Workshop on Housing Density & Other Parameters of Housing Layouts .
- August, 2013, Workshop on Representing Architecture through Sketching.
- 1st week of October, 2013 Workshop on Research Methods & Communication.
- 18th - 20th November, 2013 Workshop on Services 'Conceptual to Visual to Reality'.
- 27th - 1st February, 2014 Workshop on Urban Design and Dissertation.

Any other information (Awards/Honours and Special Achievements):

Prof. (Dr) Ashish K. Rege was appointed as the Goa State Nominee Member of Council of Architecture, India at New Delhi and was elected as the Chairman of the Goa Chapter of Institute of Town Planners, India.

SPORTS ACHIVEMENTS:

- Inter class Football Tournament organised at Goa College of Architecture in August 2013.
- Inter class Table Tennis Tournament organised at Goa College of Architecture in March 2014.
- Spree 2014 (Basketball) organized by BITS PILANI, in February 2014 - 3rd place : Greig, Jason, Silcha, Remedy, Khrushchev.

5.35 Goa College of Music, Altinho, Panaji

Year of Establishment: 1987

College Address: Dr. T. B. Cunha Educational Complex,
Altinho, Panaji – Goa.

Principal's Details:

Name : Shri Manab Das

Contact No.: 2232507/2432528

Email : goacollegeofmusic@gmail.com

Vision and Mission Statement:

The main function of the College is to impart full time professional training in Hindustani Classical Vocal and Instrumental Music. It has aimed to provide a specialized training to the music students in all important aspects of music with a special emphasize on developing his/her performing ability to the professional standard. To start post graduation in the subject of Tabla. To start short term courses in different related aspects of Indian Music.

Courses offered, sanctioned and filled strength:

- Foundation Course – 15,
- Bachelor of Performing Arts – 20,
- Master Performing Arts – 6.

Faculty strength: 06

Any other information:

“Late Kamlabai Hede Memorial Prize” were awarded to Kum. Harsha M. Sawant, Vocal Student and Shri Mahesh Vaze, Tabla Student of this College for securing first place at the Bachelor of Performing Arts Final Examination in Vocal and Tabla discipline.

5.36 Institute of Nursing Education, Bambolim

Year of Establishment: 1993.

College Address: Institute of Nursing Education, Opposite Military Workshop, Bambolim-Goa

Principal's Details:

Name: Mrs. Carol Noronha

Contact No. : 7798142248

Email: inegoabam@gmail.com

College website: www.dhsgoa.gov.in

Vision and Mission :

Believes that the core of nursing is the individual (sick or well)/family and community, therefore the nursing education programme run at the Institute of Nursing Education should primarily focus on meeting the health needs of the individual/ family/community.

Agrees that care is vital to the maintenance of a healthy life practice and to the recovery from illness/disease and though caring is universal - the expression, of caring is to be adapted to the cultural context of the individual/family.

Believes that effective communication is an essential basis for efficient client care and is imperative in public dealing.

Is of the opinion that the students can be developed as change agents, irrespective of their socio-economic background and cultural orientation.

Believes that education is a continuous learning process and that nursing education involves imparting nursing theory, development of skills and attitudes that assist students to perform her/his duties and assume professional responsibility and accountability as registered nurses.

Recognizes that optimum learning can occur in a stimulating, supportive environment in which frequent feedback motivates students to excel.

Agrees that efficiency in the teaching-learning process is enhanced by teacher's regularly updating their knowledge through participation in in-service-education programmes and other educational forums.

Believes that the curriculum should meet the changing health needs of society and hence needs to be reviewed regularly.

Courses offered, sanctioned and filled strength: B. Sc (N) Programme-50

Faculty Strength: - 20

Conferences/Workshops Organised: -

- Clinical Pharmacology in Nursing Practice, 26/11/2013
- Diabetes – Management and Prevention, 24/01/2014
- Accuracy in Nursing Diagnosis and Standardized Nursing Languages, 25/01/2014
- Cardio Pulmonary Resuscitation, 06/02/2014
- Enhancing emotional intelligence, 14/12/2013
- Emotions, intelligence and emotional intelligence, 25/03/2014

Publications:

	Foreign	Indian
Books	--	01

Papers presented in Conferences/Seminars/Workshops:

Within India: 01 within Goa: 0

5.37 G. V. M's College of Education, Ponda

Year of Establishment:- 1993

College Address:- Post Box No. 139, Farmagudi Ponda Goa 403 401

Principal's Details:

Name: Dr. Allan J. Abreo

Contact No. : 0832-2335089, 0832-2335880

Email: gym.educol@gmail.com

College website: www.gymcollege.com

Vision and Mission Statement:

Vision: We are committed to the professional development of teachers, both pre-service and in-service, for reflective, constructive and value-based teaching-learning employing both insight and technology within the ambit of the native socio-cultural perspective.

Mission: To achieve excellence in the professional development of teachers through: Developing committed, technology savvy, value-based and research oriented teaching professionals.

Initiating them to lifelong learning and to innovative, interactive, activity-oriented and child-centred classroom teaching.

Training them to create an environment in educational and social milieus that would promote communication, cultural diversity and national integration

Orienting them to the service of the community for its educational and socio-cultural resurgence.

Courses offered & sanctioned and filled strength: Course: B.Ed. - 102

Faculty strength: 10

Achievements of the College:-

The College through extension activities has conducted 34 workshops/Seminars and all faculty were Resource Persons for these workshops.

Papers presented in Conference/Seminars/Workshops:

Within India: 02

within Goa: 02

5.38 B. S. P's Gomantak Ayurveda Mahavidyalaya & Research Centre, Shiroda

Year of Establishment: 1993

College Address: Vajem, Shiroda – Goa. 403103.

Principal's Details:

Name:Dr. Anura P. Bale

Contact No. :9822589751

Email: bale_anura@rediffmail.com

College website: www.gamrc.org

Vision and Mission Statement: To provide the best opportunity to choose Ayurveda as a career to serve the society and the nation for a fascinating future ahead.

Courses offered, sanctioned and filled strength:

B.A.M.S. -Bachelor of Ayurveda Medicine and Surgery (Ayurvedacharya), 40 Seats

Faculty strength: 30

Achievements of the College:

Ayurvision Exhibition on 23rd-25th September, 2013.

Conferences/workshops organized:

Dr. Anil Panse delivered Lecture on Asthi Saushriya Ayurvedic Concept on World Osteoporosis day on 20th August, 2013 at Science Centre, Miramar, Panaji.

Publications

Books

Indian

03

Papers presented in conference/Seminar/ Workshops:

Abroad: 01

within India: 02

within Goa: 04

Any other information:

- Dr. Geeta Patki was awarded Best Paper Award for presenting a paper in a State Level seminar on Ayurvedic Perspective of Bad Obstetric History held on 22nd August, 2013 organized at KLE, Belgaum, Karnataka.
- New Invention of Amrutprashan incepted on 10/08/2013.
- Dr. Avadhut S.Aiya awarded First prize for Paper publication on –Role of valuka sweda & Vatagajankusha Rasa in the management of Cervical Spondylosis by Dr. Sunanda Ranade & Dr. Subhash Ranade Medical Foundation.
- MPLAD system donated and inaugurated by Hon'ble Shri Shripad Naik, MP North Goa, on 1st August, 2013.

Sports Achievements:

Badminton won against father Agnel College on 26/07/2013.

5.39 Goa Medical College, Bambolim

Year of Establishment:1963.

College Address: Bambolim-Goa, 403 202

Principal's Details:

Name:Dr. Pradep G. Naik

Contact No: **0832-2458727**

E-mail: **dr.naikp@gmail.com**

Website: www.gmc.goa.gov.in

Course offered and sanctioned strength: Anatomy MS – 2, Physiology MD – 3, Pharmacology MD – 2, Pathology MD -3, Microbiology MD – 3, Forensic Medicine MD -2 ; DFM - 4, Preventive & Social Medicine MD – 2; DPH - 2, Biochemistry MD -2, General Medicine MD – 5, General Surgery MS -6, Obstetrics & Gynaecology MD -5; DGO – 4, Anesthesiology MD -4; DA - 4, Orthopedics MS -3, Ophthalmology MS -3, Pediatrics MD -3; DCH - 4, Skin & V.D. MD – 1; DVD - 2, Radio Diagnosis MD -2; DMRD - 4, Psychological Medicine MD -2; DPM - 2, T.B. & Chest Diseases MD – 3, E.N.T. MS – 3.

Any new courses started:Allied Health Sciences Courses, B. Sc. Anesthesiology, B. Sc. Optometry and Physiotherapy & Occupational therapy

Faculty strength:

Anesthesiology: 47, Biochemistry : 8, General Medicine: 16, Forensic Medicine: 10, Microbiology : 10, Ophthalmology : 5, Orthopedics : 4, Physiology : 10, Preventive and Social Medicine : 16, Pharmacology : 10, Psychological Medicine: 7, General Surgery : 9, T.B. & Chest Diseases : 7, Skin & V.D.: 4, E. N. T. : 5.

Achievements of the College:

- The Cardiac Cath lab was started on 18th February 2014 and all cardiac procedures and surgeries were functional by mid March.
- The Department is also involved in the routine diagnostic bench work and various National Programmes like HIV Surveillance and Sentinel Surveillance, Revised National Tuberculosis Control Programme (RNTCP), Integrated Disease Surveillance Programme (IDSP), External Quality Assurance (EQAS) for CD4 and HIV Testing and External Quality Control for VDRL Test for Syphilis.
- The department has established the Intermediate Reference Laboratory for Culture & Drug Sensitivity of Mycobacterium tuberculosis.
- PCR Test for Mycobacterium tuberculosis is being conducted.
- Serological testing facilities for exotic viral diseases, such as Dengue, Japanese Encephalitis and other bacterial infections like Leptospirosis are available at the Regional Laboratory. The Department is actively participating in the RNTCP (Revised National Tuberculosis Control Programme) and has one Centre attached to it. The Department is now accredited for Mycobacterial culture and drug sensitivity.
- Setting up of Low Vision Unit in Department of Ophthalmology.

- The Department continued to implement National Health Programmes in the field practice area of Rural Health Training Centre, Mandur and Urban Health Training Centre, Santa Cruz in collaboration with Directorate of Health Services and other health related agencies and achieved 100% coverage under Pulse Polio Immunization.

Sponsored Research Projects sanctioned between June 2013 and May 2014.

Sr. No.	Name of Investigator/s	Project Title	Date of Sanction and duration	Funding Agency	Amount (Rs in Lakhs)
1	Dr.D. D. Motghare, Dr.A.M. Ferreira, Dr. F.S. Vaz &Dr. M.S Kulkarni	“Evaluation of the Behaviour Change Campaign under anti-material month in Goa 2013”	2013	Govt. of Goa	0.25

Sports achievements:

- Dr. Ankush B. Patil has won the State level Civil Services Badminton Tournament held for the year 2013-2014 and represented the Goa State at National Level Civil Services Badminton Tournament held at Gujarat for the year 2013-2014. He has also won the second place in Doubles at the State Level Civil Services Table Tennis Tournament.

Conferences/Workshops organised:

- “Echo Goa 2014” Conference 30th October 2014 to 2nd November 2014.
- “Biostatistical Data Analysis SPSS Workshop “ 21st and 22nd April 2014.
- “Current Challenges in Otolaryngology “ 3rd and 4th August 2013.
- ‘A operative workshop’ on ‘GI Cancer’ conducted by TATA Memorial Hospital
- 30th November 2013.
- Live Operative Workshop on ‘Laparoscopic Hernia Surgery’ 03rd January 2014.
- Laparoscopic Surgery Workshop of an ‘Colorectal Surgery’ 6th to 8th October 2014.
- “Recent advances in oculoplasty : CME & Surgical” Workshop 11th January 2014.
- “Workshop on Victim Assistant Unit (VAU)” June 2014.
- “6th National Conference on Pediatric Anesthesia” 21st – 23rd February 2014.

Publications:

	Foreign	Indian
Research papers in Journals:	56	40
In Edited Books	01	---
Books:	Nil	01

Conferences/Seminars/Workshop attended:

Abroad: 06 Within India: 22 Within Goa: 12

No. of teachers who obtained research degree during the year:

M. Phil:01 Ph. D. :02

Any other information:

- The Prevention & Social Medicine Department has published thirteen Research Papers in various International and National Professional Journals and received the Lahari Trophy for outstanding research work 2013.
- Dr. Jagadish Cacodcar, received Service Excellence Award at IV Annual Conference of Global Association of Physicians of Indian Origin (GAPIO) at Kolkata, January 2014.
- MCh in ortho. was awarded to Professor Dr. S. M. Bandekar in Jan. 2014.
- MECOR international Scholarship Awards at American Thoracic Society Conference.
- Awarded the “MECOR” International Scholarship Award” by American Thoracic Society for research paper presented at the ATS International Conference May 2013.
- Dr. P.V. Rataboli was awarded ‘Bharat Shiksha Ratan award’ for his achievements in the field of Medical Education and research by Global Achievers Foundation , New Delhi in May 2013.

**5.40 Shri Kamaxidevi Homoeopathic Medical College & Hospital,
Shiroda**

Year of Establishment: 1998

College Address: “Shiv-Shail”, Shiroda, Goa – 403 103.

Principal’s Details:

Name: Dr. S. D. Naik, M.D.(Hom.); PGDHHM

Contact No.: (O) 0832-2306842/2307441, (M) 09764264600

Email: drsdnaik01@gmail.com

College Website: www.homoeopathycollegegoa.org.in

Vision & Mission Statement: Vision: To achieve excellence in Homoeopathic Education with Research and service to Humanity in Health care.

Mission:

- To Stimulate the Academic Environment in the institution for promotion of quality teaching, learning and research in homoeopathy.
- To develop this institution as a centre of excellence in education and research.
- To inculcate skill base clinical training practices that exemplifies excellence in health care with global standards.
- To make homoeopathy the defining mode of treatment in health care in the society.
- Service to the society with human touch and moral values.

Courses offered: BHMS – Degree Course-50

Faculty Strength: 32

Achievements of the College:

Three weeks clinical Training Programme for delegates of Switzerland Homoeopathic Institution under the MOU with SKHMC&H

Conferences/Workshops organized:

State level seminar on Malignancies of female reproductive tract with Homoeopathic prospective conducted on 10th April 2014 at SKHMC&H.

Any other information (Awards/Honours and Special Achievements):

- “Shri Kamaxidevi Homoeopathic Medical College Gold Medal” for securing Top position at the Final BHMS regular examination of Goa University .
- “Smt. Ramabai Bhaskar Suria Rau Sar Desai Memorial Gold Medal” for securing Top position at the First BHMS in the subject Human Anatomy sponsored by Professor Dr. R. B. Desai.

Sports Achievement (Note: State/National/International level achievements other than Goa University sports events may be mentioned):

Organized State level intercollegiate (Medical/paramedical medical) cricket tournament from 13th to 15th February 2014.

5.41 National Institute of Hydrography, Vasco-Da-Gama

Year of Establishment: 1978.

College Address: National Institute of Hydrography, c/o Headquarters, Goa Naval Area, Vasco-da-Gama 403 802

Principal's Details:

Name: Capt. TP Mahato

Contact No.:0832-2582800

Email:info-nih.goa@nic.in

Website:www.nihgoa.gov.in

Vision and Mission Statement: To impart Training in the field of Hydrographic Surveying in accordance with extant training policies of Indian Navy and the latest trends in the field, so as to enable trainees undertake Hydrographic surveys with efficiency and confidence.

Courses offered and sanctioned strength: M. Sc. (Hydrography) (Foreign and Indian Naval Officers)-15.

Faculty Strength: Officers-08, Sailors-22

Conferences/Workshops organised:

- Workshop on Digital Level (DNA-03) organised from 22-23 Oct 2013
- Workshop on Digital Hydro Pro organised from 25 Nov 2013
- Workshop on Total Station organised from 16-21 Dec 2013
- Workshop on QINCy and FLEDERMAUS organised from 17-19 Feb 2014

Conference/Seminars/Workshop Attended:

Captain Rajesh Bargoti, Officer-in-Charge of this Institute attended Annual Hydrographic Conference held on 5-7 Sep 2013 at National Hydrographic Office, Dehradun.

Any Other Information:

Accuracy Study of GAGAN (SBAS): Successful launch of Indian GSLV rocket and the implementation of GAGAN (SBAS) is also monitored closely for its applicability in the Hydrographic survey. A feedback on the accuracy and the acceptability to meet the surveying standards was also sought as a professional advice from NHO. The institute undertook detailed evaluation of the same and forwarded its results to NHO for implementation to surveying ships and units.

5.42 Padre Conceicao College of Engineering, Verna

Year of Establishment: 1997.

College Address: Padre Conceicao College of Engineering, Verna, Goa.

Principal's details

Name: Luis C. Mesquita

Contact No.: 0832-2791266 Extn 101

Email: principal@pccegoa.org

Website: www.pccegoa.org

VISION AND MISSION STATEMENT:

Vision:

To grow into a Centre of Excellence in Engineering Education and Research and promote Padre Conceicao College of Engineering brand of engineers well known for their competence and integrity.

Mission:

To provide excellent infrastructure in terms of faculty, laboratories, library and other facilities required for curricular and extra-curricular activities. To provide the best work culture and academic ambience with avenues for all-round personality development of students.

To work closely with industry and other organizations involved in nation building and societal development. To continue to remain in the forefront as an institution of first preference for all its stakeholders.

Courses offered and sanctioned & filled strength:

- Bachelor of Computer Engineering – 63, **filled-59**;
- Bachelor of Electronics and Telecommunication Engineering – 63, **filled- 63**;
- Bachelor of Mechanical Engineering – 63, **filled-63**;
- Bachelor of Information Technology – 63, **filled-50**;
- Master of Engineering in Information Technology–18, **filled-17**.

Faculty strength:44.

Teachers deputed for higher studies under FIP: 02

Conferences/Workshops Organised:

- Cloud Computing, 4th to 8th November 2013
- Finite Element Method, 10th January 2014
- ISTE Short Term Training program on “Embedded Systems on Raspberry Pi”, 23rd to 27th June 2014.
- Android Applications Development, 30th June to 12th July 2014.

Publications:Foreign	Indian	
Research papers in Journals	20	07

Papers presented in Conferences/Seminars/Workshops:

Abroad: Nil within India: 11 within Goa: 07

Sports achievements:

- The basketball team from PCCE secured **third position** in the first Inter-Collegiate Basketball Tournament organized by Dempo College and held at Don Bosco College, Panjim.
- **Mr. UmangKaisary** represented the Goa University at the **Inter-University Chess Championship** held at Mahatma PhuleKrishiVidyapeeth, Rahwis, Maharashtra.
- **Ms. Alisha Afonso** represented the state of Goa in Table Tennis at national level.
- **Mr. ChinmayKamat** represented the state of Goa in Badminton at national level.

5.43 V. V. M's H. M. N. Gaunekar Institute of Management Training And Research, Comba, Margao

Year of Establishment: 1981

College Address: Shree Damodar College Complex, Govind Ramnath Kare Road
P.O. Box 413, Tansor, Comba, Margao- Goa 403 601

Principal's Details:

Name: Atul Shah

Contact No: 6482030/2732663,9823617362

email: imtrgoa@gmail.com, atulkiran@rediffmail.com

College Website: www.imtrgoa.com

Vision and Mission Statement:

Vision: To be the foremost Institute imparting Training for the working sector in the Country.

Mission: To provide avenues for education and training for adults and working professionals to enhance personal and Organizational effectiveness and increase job satisfaction.

Courses offered, sanctioned and filled strength: Post Graduate Diploma in Management (PGDM)- 45 seats.

Conferences/Workshops Organized:

- Motivation Mantras- 19-20 September, 2013
- Stress Management - 25-29 November, 2013
- New Trends in Human Resource Development. – 17-22 February, 2014
- Communication And Presentation Skills - 21-15 October, 2013
- Communication And Presentation Skills(for Women) – 9-13 December, 2013
- Managerial Effectiveness Enhancement Programme- 13-17, January 2014
- Managing Change in Government Organizations- 3-7 March 2014.

Achievements of the College:

- The Institute conducted several programmes for the senior IFS Officers from all over the Country, sponsored by the Ministry of Environment & Forests (MoEF), Government of India.
- The Institute also conducted programmes for the Scientists & Technologists from all over the Country, sponsored by the Ministry of Science & Technology, Government of India.
- The Institute conducted a wide range of programmes for Private & Government Organisations all over Goa.

5.44 INS Hamala, Marve, Malad (W), Mumbai

Year of Establishment: 1954.

Principal's Name and Contact Address:

CDR Sankardeep Bharali, INS Hamla, Marve Malad (W), Mumbai, 400 095.

Courses offered and Sanctioned strength: MBA (LM) – 20.

5.45 Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda

Year of Establishment: 2001

College Address: Shivshail, Karai, Shiroda Goa 403 103

Principal's Details:

Name: Prof.(Dr.)Surendra Rahamatkar

Contact No: 0832 2307001, 2307032

Email: principal.ritgoa@gmail.com

Website:www.ritgoa.ac.in

Vision and Mission Statement:

Vision: To be competent leaders in professional education with an emphasis in moulding the students as global professionals with sound technical knowledge, values and ethics for the benefit of the society.

Mission: To achieve academic excellence in technical education by creating a dynamic learning atmosphere through the state of the art infrastructure with qualified and committed staff, promoting research and development, best practices, implementing innovation technology in education and training, motivating the students to become successful competent engineering professionals to face the rapid challenges in technical development and industrial economic growth.

Courses offered and Sanctioned strength:

- Electronics & Telecommunication Engineering–Sanctioned - 63, filled - 36;
- Computer Engineering–63, filled - 18;
- Information Technology – 41, filled - 06.

Faculty Strength: 55.

Achievements of the College:

Ms. Prema secured 1st University rank in Information Technology in B. E. Final year exam in 2013 of Goa University.

Conferences/Workshops organized:

Workshop on Development of Entrepreneurship Skill Sets, 24th to 26th September 2013.

Workshop on Signal Processing using MATLAB and Simulink, 16th to 18th January 2014.

Publications:	Foreign	Indian
Research papers in journals	05	01

Papers presented in Conferences/Seminars/Workshops:

Abroad: Nil within India: 09 within Goa: 01

Any other information:

- Mr. Roshun Amballoor, Project titled "Automated Urban Agriculture" selected among the Top 10 in State Level Competition "Kaun Banega Udyogpati 13"
- Mr. Atlee Fernandes and Mr. Tushar Tari bagged 1st prize for paper presentation on 'Stress Meter Skin Conductance to measure stress'.

Sports Achievements:

- Mr. Mahendra Ananthu secured Gold Medal in University Intercollegiate Taekwondo Tournament.
- Mr. Swan Sharma secured Bronze Medal in University Intercollegiate Taekwondo Tournament.
- Mr. Pravin Kumar secured Bronze Medal in University Intercollegiate Taekwondo Tournament.

5.46 P. E. S. College of Education, Farmagudi, Ponda

Name of the College: P. E. S.'s College of Education & Research

Year of Establishment: 2004.

College Address: P.O.Box No. 3, Farmagudi, Ponda Goa 403 401.

Principal's Details:

Name: Dr. Geeta Mahadevan Iyer

Contact No.: 9970820138

E-mail : iyermgeet@yahoo.co.in

Vision and Mission Statement: Community Enlightenment through Progressive, Prospective and Quality Education

Courses offered and Sanctioned strength: B. Ed. - 100.

Faculty Strength:

Full time:3

Contract basis:2

Achievement of the College :

- Our student Miss Ruchita Alornekar stood first in the Goa University B.Ed Examination April 2014
- Third prize at Kala Academy Inter college one act competition (English)
- One-act play” Amchya Saathi Amihi” won the Second prize competition organized by Mahalakshmi Yuvak Sangh

Conference/workshop organized:Workshop on use of Tally for the members of AGATA (All Goa Accounts Teacher Association).

**5.47 Victor Medical & Research Foundation’s College of Nursing
Margao**

Year of Establishment: 2005

College Address: VMRF College of Nursing, Malbhat, Margao, Goa.

Principal’s Details:

Name: Mrs. Maria Antao

Contact No.: 0832-2720071/ 2720062

email: antao_maria@ yahoo.com

College Website: www.goanursing.com

Vision and Mission Statement: To prepare nursing graduates who are capable of providing holistic, quality nursing care anywhere in the world without any discrimination.

Courses offered & Sanctioned Strength: (Basic) B.Sc Nursing-30 (4 years course)

Faculty strength: 12

Achievement of the college:

- Dementia Surveillance Camp
- NSS Special Camp at Govt. Primary School, Rumdamol: Survey of the area, HIV counseling & testing, etc.
- Outreach programme – on First Aid in Emergency to students in a school in Macazana.

Conferences / Workshops Organized:

- Workshop, Food and Nutrition, 5 October 2013.
- SNA State Binniel Conference
- 25th SNA National Binniel Conference (Gujarat)

Any other information:

- Conducted blood donation camp in the college.
- Conducted Dental Screening camp in collaboration with PHC for school children in Community.
- Conducted Physical examination camp in the Community in collaboration with Govt. Medical Officers.

5.48 Vrundavan Institutes of Nursing Education, Colvale, Bardez- Goa.

Year of Establishment: 2007.

College Address: Near Binani Glass Fibre Pvt. Ltd.,
Mushir Wado, Colvale, Bardez-Goa.403 513.

Principal's Details:

Name: Ms. B. G. Bhavani

Contact No.:+919619198309, 0832-3260844

Email:bhavanig70@yahoo.com, vinegoa@yahoo.com

College Website:www.vrundavaninstituteofnursing.com

Vision and Mission Statement: To prepare service oriented nurses to provide quality health care.

Course offered and sanctioned strength: B. Sc. Nursing - 40.

Faculty strength: 12

Achievements of the College:

- Final year B. Sc Nursing results - 100%
- Staff participated actively in various workshops in collaboration with Red Ribbon Club of Goa, Diabetes Society of Goa and Vrundavan Shalby Hospital of Goa.
- 2 faculties have attended GFATM workshop I at INE, Mumbai.

Publications:

Research papers in journals:

Foreign

03

Papers presented in Conferences/Seminars/Workshops:

Within Goa: 02

Any other information (Awards/Honours and Special Achievements):

In SNA state level elections of all the colleges students were elected as Vice President and General Secretary of SNA, Goa Branch.

5.49 Institute of Psychiatry and Human Behaviour, Bambolim

Year of Establishment: 1980.

College Address: V. N. Jindal, Institute of Psychiatry and Human Behaviour, Bambolim

Principal's Details:

Name: Dr. Pradeep G. Naik,

Contact No: 9822127480

Email: dr.naik.p@gmail.com

College Website: www.iphb.goa.gov.in

Courses offered, sanctioned and filled strength: 2-MD in Psychiatry,
2 -Diploma in Psychological Medicine. Lectures for Psychiatry for MBBS students under UG curriculum.

Faculty strength: 7

Publications:

Research papers in Journals:

Foreign

06

Indian

05

Papers presented in Conferences/seminars/workshops

Within India: 02 Within Goa: 01

Any other information(Awards/Honours and Special Achievements):

5.50 P. E. S's Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi, Ponda

Year of Establishment: 2007

College Address: Farmagudi, Ponda Goa 403 401

Principal's Details:

Name: Dr. S. N. Mamle Desai

Contact No: 8390773995

Email: smamledesai@rediffmail.com

College website: www.pespharma.in

Vision and Mission Statement: Our Mission :-The Mission is to provide a supportive environment for pharmacy education, training and research programs in Pharmaceutical Sciences and Practice at undergraduate, postgraduate and doctoral level to motivate the students for becoming key professionals to serve profession of pharmacy through effective teaching – learning process, enhancing quality of pharmaceutical education, encouraging innovations and research, inculcating problem-solving approach and leadership skills in students to provide service to community, profession and the nation.

Vision: Our vision is to become centre of excellence in Pharmaceutical education, research and technologies.

Courses offered, sanctioned and filled strength:First year B.Pharm, sanctioned strength is 60+(3 AICTE Tution Fee Waiver Scheme), Filled strength:63, second year B.Pharm sanctioned strength is 63 +12 seats directly admitted to S.Y.B.Pharm. who have passed out Diploma in Pharmacy (Total 75 seats & M.Pharm. in Pharmaceutical Chemistry – sanctioned strrngth is 18 seats while filled strength is 16 seats.

Any new course started: M. Pharm in Pharmaceuticals:Sanctioned strength: 18

Faculty Strength:17

Publications:	Foreign	Indian
Research papers in journals	07	09
Books	01	--

5.51 Don Bosco College of Engineering, Fatorda, Margao

Year of Establishment: 2011

College Address: Fatorda, Margao, Goa 403602

Principal's Details:

Name: Prof. Ajit Salunke

Contact No: 9921878026

Email: ajit.salunke@dbcegoa.ac.in

College website: www.dbcegoa.ac.in

Vision and Mission Statement:

Vision Statement: The Salesian community of Don Bosco, Fatorda becomes a point of reference for all Youth, especially of the neighbourhood, where Youth will see and receive assistance with regard to their integral development (more than a centre for recreation). A place also for spiritual animation, vocation guidance, counseling, recruitment services, technical, leadership skills. Making Youth Evangelizers of youth.

Mission Statement:

The community constantly endeavors to spread God's kingdom through innovative methods of education and activities oriented towards holist development and dignified livelihood by: By being a witnessing community, Empowering youth to be evangelizers, Bringing about spiritual renewal, Networking, Exploring and exploiting the opportunities available for livelihoods.

Courses offered, sanctioned and filled strength:

- Mechanical Engineering-sanctioned-62 &filled-63,
- Electronics & Telecommunication Engineering-sanctioned- 63 &filled-62,
- Computer Engineering-sanctioned- 63 &filled-52,
- Civil Engineering- sanctioned-63 & filled – 59.

Faculty strength: 49

Conferences/Workshops Organized:

- Workshop 'Concrete Mix Design for industry", 23rd August 2013.
- ISET Approved One week STTP on " Fuzzy Logic & its Application" for faculty & industry professionals, 6th January to 10th January 2014.
- Workshop on "Industrial Automation & Process Control" for industry & faculty, 24th January to 25th January 2014.
- Workshop on "Condition Monitoring of Rotating Machines" for industry & faculty, 29th March 2014.

Papers presented in Conferences/Seminars/Workshops:

Abroad: 05 Within India: 03

No. of teachers who obtained research degree during the year: Ph.D.- 02

5.52 Goa College of Hospitality and Culinary Education, Cidade de Goa, Vaiginim Beach

Year of Establishment: September, 2011

College Address: Cidade de Goa, Vainguinim Beach, Goa – 403 004.

Principal's Details:

Name: Ms. Zarine Lobo

Contact No: 0832-2454560

Email: principal_ghc@cidadedegoa.com

College Website: www.goahospitalitycollege.com

Vision & Mission Statement: The Academy of Culinary Education which began in the year 1995 by creating culinary professionals for the industry has evolved into the Goa College of Hospitality & Culinary Education (2011) and today develops Hospitality professionals by providing and equipping students with the necessary knowledge and skill sets which will enable them to successfully carve a niche for themselves.

The Institute will in the next five years look at developing a state of the art infrastructure and will continue its effort to groom, provide contemporary and quality education and handcraft professionals for the Hospitality Industry.

Mission: "Every individual is handcrafted."

Courses offered, sanctioned & filled strength: Bachelor in Business Administration (Hospitality & Culinary Management): Sanctioned Strength-60, Filled in Strength- 41

Faculty Strength: 04

5.53 Agnel Institute of Technology and Design, Assagao, Bardez

Year of establishment: 2012

College Address: Agnel Technical Education Complex, Assagao, Bardez, Goa.

Principals Details:

Name:Dr. V. Mariappan

Contact No:0832-2268032

Email:vm.aitdgoa@gmail.com

College website: www.aitdgoa.edu.in

Vision:Towards the full realization of our enduring core values committed to our society and nation, provision of education at par excellence considering all segments of our versatile society, continual enhancement in academic research coupled with back-end industrial induction – Agnel Institute of Technology and Design will strive to evolve to be a centre of academic excellence which will mould all its aspirants adaptable to dynamic needs of society and innovations with its traditional touch of work ethic, dedication and dignity.

Mission:

To become one among the preeminent technical institutes of the nation.

To strive constantly to enhance and sustain quality in teaching-learning, research and industrial practice with societal well-being at the forefront.

To emerge as the sole Engineering institute in the state of Goa, based on industrial research and innovation.

To provide the right mix of innovation, work ethic and dignity in the service of society.

Courses Offered, sanctioned and filled strength:

- Mechanical Engineering-Sanctioned – 63& filled-63,
- Computer Engineering-Sanctioned – 63& filled-58,
- Electronics& Communications Engineering-Sanctioned – 63 & filled-51.

Faculty Strength:21

Conference/ workshop Organised: 05

Publications:

Research papers in journals

Foreign

03

5.54 Vidya Prabodhini College of Commerce Education, Computer and Management, Porvorim

Year of Establishment: 2012.

College Address: Vidyanagar, Porvorim, Goa.403521

Principal's Details:

Name: Shri Sukhaji Gajanan Naik

Contact No.:9422449632

Email:naiksukhaji@gmail.com

College Website: www.vidyaprabodhini.com

Vision and Mission:

Vision: Development of mind, body, knowledge, moral and spirituality by instilling and nurturing the basic values of education, human dignity, creative abilities to develop professional competence with focus on opportunities for individual excellence to serve the nation with pride by service above self.

Mission: Excellent everywhere everytime for Excellence in the field of Education on knowledge acquisition and adoption. For service to public and outreach activities.

Courses offered, sanctioned and filled strength: B. Com. – Sanctioned: 180,
Filed: 128

Faculty strength: 04

Publications:	Foreign
Research papers in journals	01

Papers presented in Conferences/Seminars/Workshops:
Within India:01

Sports Achievements:Silver Medal In Kudo At National Level

5.55 Adarsha Institute of Management, Agali, Fatorda, Goa

Year of Establishment: 2009

College Address: Agali, Fatorda, Goa. 403602.

Principal's Details:

Name: Dr. Dilip D. Kare

Contact No: 9881280404

Email: ddkare2@gmail.com

College Website: www.aimgoa.com

Vision and Mission Statement: To Provide high quality management education, so as to transform them into successful business leaders with a deep sense of social responsibility.

Courses offered, sanctioned and filled strength: PGDBA (Banking and Finance): sanctioned – 40, filled strength – 16.

Faculty strength: 04

Conferences/Workshops Organized:

Workshop on EXCEL for Statistics for 25 Teachers from various colleges in Goa

A lecture series on Investor awareness in association with the Registrar of Companies and The Institute of Cost Accountants.

RECOGNISED INSTITUTIONS

List of Recognised Institutions:

- 5.56 Xavier Centre of Historical Research, Alto Porvorim**
Name of the Director: Savio Abreu S. J.
Year of Establishment: 1977
Website: www.xchr.in
Faculty/Scientist strength: 03
Courses/Degree for which the Institution is recognised: Ph.D. in History
- 5.57 National Institute of Malaria Research, New Delhi.**
Name of the Director: Dr. Neena Valecha (Officer-In-charge)
Year of Establishment: 1977
Website: www.mrcindia.org
Faculty/Scientist strength: 50
- 5.58 Directorate of Archives & Archaeology, Panaji Goa.**
Name of the Director: M. L. Dicholkar
Year of Establishment: 1995
Courses/Degree for which the Institution is recognised: Ph.D. degree.
Website: <http://www.daa.goa.gov.in>
- 5.59 National Institute of Oceanography, Dona Paula, Goa**
Name of the Director: Dr S. W. A. Naqvi
Year of Establishment: 1966
Courses/Degree for which the Institution is recognised: Ph. D. in Marine Science.
Website: <http://www.nio.org>.
Faculty/Scientist strength: 134.
- 5.60 Earth System Science Organisation-National Centre for Antarctic & Ocean Research (ESSO-NCAOR), Vasco-Da-Gama**
Year of Establishment: 1998
Name of the Director: S. Rajan
Courses/Degree for which the Institution is recognised: Ph. D. degree
Website: www.ncaor.gov.in.
Faculty/Scientist strength: 11(Regular) 42(Contract)
- 5.61 Thomas Stephens Konknni Kendr, Porvorim**
Name of the Director: Apolinasio Cardozo
Year of Establishment: 1982
Courses/Degree for which the Institution is recognised: Konkani Research work.
Website: www.tskk.org.
Faculty/Scientist strength: 6.

**5.62 Fisheries Survey of India, Government of India, Ministry of Agriculture,
Department of Animal Husbandry, Dairying & Fisheries, Mormugao Zonal Base,
Mormugao Goa.**

Name of the Director: D. M. Ali

Year of Establishment: 1972

Courses/Degree for which the Institution is recognised: Ph. D.

Email: fsimormugaobase@gmail.com

Website: www.fsi.gov.in

Faculty/Scientist strength: 3.

5.63 Syngenta Biosciences Pvt. Ltd. Santa Monica Works, Corlimlhas,
Goa, 403 110.

Name of the Director: Dr. Bhanu Manjunath

Year of Establishment: 2005

Courses/Degree for which the Institution is recognised: Ph. D.

Website: www.syngenta.com

Faculty/Scientist strength: 87

5.64 ICAR, Research Complex for Goa Ela, Old Goa, 403 402.

Name of the Director: Dr Narendra Pratapsingh

Year of Establishment: 1989

Courses/Degree for which the Institution is recognised:

Website: www.icargoa.res.in

PART 6:

STUDENTS STRENGTH

6.1 Students Strength at PG Level: Post Graduate Departments of the University

Subject	Part I		Part II		Part III		Total Students		
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
English	2	35	1	36			3	71	74
Hindi	2	41	4	22			6	63	69
Marathi	3	28	5	20			8	48	56
Konkani	5	38	3	41			8	79	87
French	8	21	0	3			8	24	32
Portuguese	4	1	1	5			5	6	11
Economics	10	28	5	29			15	57	72
History	3	29	2	31			5	60	65
Political Science	5	22	4	16			9	38	47
Sociology	2	18	0	21			2	39	41
Philosophy	0	4	1	6			1	10	11
CLAS	3	3	3	1			6	4	10
B.Lib	2	18	0	0			2	18	20
Chemistry	12	60	4	32			16	92	108
Computer Science	36	28	24	6	16	12	76	46	122
M.Tech	6	4					6	4	10
Earth Science	11	4	10	5			21	9	30
Mathematics	5	22	9	16			14	38	52
Physics	8	13	8	13			16	26	42
Electronics	11	4	13	2			24	6	30
Botany	3	17	2	17			5	34	39
Microbiology	2	29	3	24			5	53	58
Zoology	1	35	1	12			2	47	49
Marine Science	5	11	1	12			6	23	29
Marine Biotech	10	23	5	8			15	31	46
Commerce	9	51	4	31			13	82	95
M.F.S.	21	20	15	10			36	30	66
MBA	25	35	33	28			58	63	121
Grand Total	214	642	161	447	16	12	391	1101	1492

6.2: Students strength in Affiliated Colleges: Professional Colleges

Name of the College	Graduates		Post Graduates		Dip. Cert		Total Students			Foreign Std		Diff. Abled		NRI St.	
	M	F	M	F	M	F	M	F	Total	M	F	M	F	M	F
Adarsha Institute of Management	0	0	0	0	9	9	9	9	18	0	0	0	0	0	0
Goa College of Pharmacy, Panaji	86	236	12	44	0	0	98	280	378	0	0	3	7	0	2
PES College of Pharmacy	35	193	12	33	0	0	47	226	273	0	0	0	0	0	0
Nirmala Institute of Education, Panaji	10	115	0	0	0	0	10	115	125	0	0	0	0	0	0
Dada Vaidya College of Education	12	90	0	0	0	0	12	90	102	0	0	0	0	0	0
PES College of Education	11	89	0	0	0	0	11	89	100	0	0	0	0	0	0
College of Engineering, Farmagudi	1183	634	119	84	0	0	1302	718	2020	0	0	0	0	3	1
P.C.College of Engineering, Verna	736	417	7	24	0	0	743	441	1184	0	0	0	2	1	2
Shree Rayeshwar Inst. Of Engr. & IT	336	267	0	0	0	0	336	267	603	0	0	0	0	0	0
Don Bosco College of Engineering, Margao	566	251	0	0	0	0	566	251	817	0	0	0	0	0	0
Agnel Institute of Technology & Design, Assagao	281	141	0	0	0	0	281	141	422	0	0	0	0	0	0
Goa College of Architecture, Panaji	34	110	0	0	0	0	34	110	144	0	0	0	0	0	0
Goa College of Art, Panaji	106	95	0	0	0	0	106	95	201	0	0	0	0	0	0
Goa College of Music, Panaji	32	17	1	3	40	37	73	57	130	0	0	0	2	0	0
V.M.Salgaocar College of Law, Panaji	274	435	37	54	0	0	311	489	800	18	33	0	0	6	1
G.R.Kare College of Law, Margao	56	120	0	0	0	0	56	120	176	0	1	0	1	0	0
Goa Medical College, Bambolim	246	412	4	0	66	81	316	493	809	0	0	0	1	4	3
Institute of Psychiatry, Panaji	0	0	1	5	1	1	2	6	8	0	0	0	0	0	0
Ayurveda Mahavidyalaya, Shiroda	33	113	0	0	0	0	33	113	146	0	0	0	0	0	0
Homeopathic College, Shiroda	17	166	0	0	0	0	17	166	183	0	0	0	0	0	0
Goa Dental College, Bambolim	62	161	20	25	0	0	82	186	268	0	0	0	0	0	0
Institute of Nursing Education, Panaji	9	91	0	0	0	0	9	91	100	0	0	0	0	0	0
Victor Medical & Foundation Research	1	29	0	0	0	0	1	29	30	0	0	0	0	0	0
Vrundavan Institute of Nursing	2	37	0	0	0	0	2	37	39	0	0	0	0	0	0
VVM's Inst. Of Mng.Tr.& Res., Margao	0	0	0	0	29	12	29	12	41	0	0	0	0	0	0
National Hydrographic School, Vasco	0	0	18	0	0	0	18	0	18	9	0	0	0	0	0
Goa College of Hospitality and Culinary Education	17	3	0	0	0	0	17	3	20	0	0	0	13	0	0
Total (Professional)	4145	4222	231	272	145	140	4521	4634	9155	27	34	3	26	14	9

6.3: Students strength in Affiliated Colleges: Non Professional Colleges

Name of the College	Graduates		Post Graduates		Dip. Cert		Total Students			Foreign Std		Diff. Abled		NRI St.	
	M	F	M	F	M	F	M	F	Total	M	F	M	F	M	F
Smt Parvatibai Chowgule College, Margao	198	565	27	64	16	25	241	654	895	1	1	1	0	0	1
Dhempe College, Miramar	264	576	0	0	1	6	265	582	847	37	0	0	3	0	1
St. Xavier College, Mapusa	813	1594	19	143	0	0	832	1737	2569	4	1	0	0	4	1
Carmel College, Nuvem-Salcete	0	661	9	92	0	0	9	753	762	0	1	0	0	0	8
P.E.S.College, Ponda	200	632	0	0	0	0	200	632	832	0	0	0	0	0	0
M.E.S. College, Zuarinagar-Vasco	557	761	0	0	0	0	557	761	1318	2	2	2	0	8	1
S.S.Dempo College, Panaji	458	584	21	69	11	11	490	664	1154	29	0	0	2	1	0
Shree Damodar College, Margao	442	478	14	65	0	0	456	543	999	0	0	0	0	0	0
V.N.S.Bandekar College, Mapusa	567	548	33	85	0	0	600	633	1233	7	2	0	0	0	0
G.V.M's College, Ponda	307	484	18	34	0	0	325	518	843	0	0	0	0	0	0
Govt. College, Sanquelim	345	562	0	0	0	0	345	562	907	2	5	0	1	0	0
Govt. College of Home Science, Panaji	2	108	0	0	0	0	2	108	110	0	0	0	0	0	0
Govt. College, Khandola	263	455	0	0	0	0	263	455	718	0	0	0	0	0	0
Govt. College, Quepem	427	771	0	0	0	0	427	771	1198	0	0	0	0	0	0
Rosary College, Navelim, Salcete	552	1083	21	58	0	0	573	1141	1714	12	3	1	1	6	8
Saraswat College, Mapusa	369	383	0	0	0	0	369	383	752	11	0	0	0	0	0
Fr. Agnel College, Pilar	258	411	0	0	0	0	258	411	669	11	1	0	0	1	0
Govt. College Pernem	154	258	0	0	0	0	154	258	412	0	0	1	2	0	0
Shree Mallikarjun College, Canacona	155	272	0	0	0	0	155	272	427	0	0	0	0	0	0
Zantye College, Bicholim	186	347	16	28	0	0	202	375	577	0	0	0	0	0	0
C.E.S.College, Cuncolim	186	262	0	0	0	0	186	262	448	0	0	0	0	0	0
Government College of Commerce	83	118	0	0	0	0	83	118	201	0	0	0	0	0	0
SVVM's College of Commerce, Borim	28	38	0	0	0	0	28	38	66	0	0	0	0	0	0
Vikas Parishad Mandre College of Com. & Eco,	51	34	0	0	0	0	51	34	85	0	0	0	0	0	0
PES Vidya Prabodhini College of Com. Edu. Mgt	68	60	0	0	0	0	68	60	128	0	0	0	0	0	0
Goa multy faculty College, Dharbandora	35	50	0	0	0	0	35	50	85	0	0	0	0	0	0
Total (Non Professional)	6968	12095	178	638	28	42	7174	12775	19949	116	16	5	9	20	20

6.4 Students Strength: Total

Institutions	Total Students		Foreign Std		Diff. Abled		NRI St.		Total
	M	F	M	F	M	F	M	F	
Colleges (Non Professional)	7174	12775	116	16	5	9	20	20	20135
Colleges (Professional)	4521	4634	27	34	3	26	14	9	9268
University PG Departments	391	1101							1492
Total	12086	18510	143	50	8	35	34	29	30895

