

XXVIII ANNUAL REPORT

June 2012- May 2013



GOA UNIVERSITY

TALEIGAO PLATEAU

GOA 403 206



GOA UNIVERSITY

CHANCELLOR
Hon. Shri Bharat Vir Wanchoo

VICE-CHANCELLOR
Dr. S. R. Shetye

REGISTRAR
Prof. V. P. Kamat

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P R E F A C E

It gives me great pleasure to present to you the 28th Annual Report of Goa University for the academic year 2012-2013.

The Annual Report has, as in earlier reports, six parts: (I) University Authorities and Boards, (II) University Departments, Centres and Programmes, (III) Achievements of the University Faculty, (IV) General Administration, (V) Affiliated Colleges, and (VI) Recognised Institutions. The Report largely covers the profiles and activities of the post graduate departments at the University and the significant achievements of both the members of the faculty and the students. The section on affiliated colleges mirrors the activities that are undertaken by the professional and general education colleges affiliated to this University.

With Gross Enrollment Ratio (GER) of 33.2%, third highest in the country, Goa has crossed the 2021-22 national goal of GER of 32.0%. As the only University set up by the State of Goa, Goa University together with its affiliated colleges takes great pride in this achievement of the state in making higher education accessible to its citizens. This Annual Report reflects the contributions of the faculty of the University towards sustainance of high levels performance in higher education of the State.

I would like to record my appreciation and acknowledgment towards the cooperation of all the teaching and non-teaching staff members involved in the compilation of this Annual Report.

Dr. S. R. Shetye
Vice Chancellor

INTRODUCTION

Goa University has treaded a path of sustained growth since its inception in 1985 around the nucleus of Centre for Post Graduate Instruction and Research of the University of Bombay in Goa. As is expected of an academic institution, Goa University has grown steadily in terms of its infrastructure, addition of contemporary courses with a dynamic curriculum, and increase in the number of affiliated colleges and recognised institutes.

The Annual Report of the University attempts to reflect the various facets of academic and co-curricular activities at the University and at its affiliated colleges. The information contained in the pages that follow truly reflects the vibrant academic ethos of the University, its focus on research, and notably the rich contribution of the faculty in terms of research projects, national and international seminars and workshops as well as publications.

We are thankful to all heads of University departments and Principals of affiliated colleges who have painstakingly compiled information that is contained in this Report. The Committee would like to express its gratitude to all those who have contributed in the publication of this Annual Report.

Bernard. F. Rodrigues	Convenor,
Editorial Committee	
Rafael Fernandes	Member
Jyoti Pawar	Member
A. A. A. Viegas	Member
S. Krishnan	Member
Purva Hegde Desai	Member
Nilesh Borde	Member
Kedar Naik	Member

PART I: UNIVERSITY AUTHORITIES AND BODIES

1.1 Members of the Executive Council

Chairman

Prof. Dileep N. Deobagkar, Vice-Chancellor (Ex-Officio), (upto 19.06.2012)

Dr. S. R. Shetye, Vice-Chancellor (Ex-Officio), (w.e.f. 17.09.2012)

Nominees of the Chancellor

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

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

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

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

Adv. Carlos Alvares Ferreira, Former Advocate General of Goa, Panaji, Goa.

Nominees of the State Government

Adv. Narendra Savaikar, Ponda, Goa(w.e.f. 01/08/2012)

Shri Dinar Bhatkar, Panaji, Goa

Shri Sudesh Gawde, Priol, Goa

Prof. Datta Bhikaji Naik, Porvorim, Bardez, Goa

The Secretary (Higher Education), Government of Goa (Ex-Officio).

The Secretary (Finance), Government of Goa (Ex-Officio).

Nominees of the Vice-Chancellor

Dr. Mahesh Sardesai, Dean, Faculty of Medicine (w.e.f. 01/08/2012)

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

Shri Pravin M. Bhende, Principal, GVM's GGPR College of Commerce and Economics, Ponda, Goa.

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

Member Secretary

Prof. V. P. Kamat, Registrar, Member Secretary, (Ex-Officio).

During the year 2012-2013, 5 regular meetings and 1 special meeting were held.

The meetings were held on 13.06.2012, 27.07.2012 (Special), 27.11.2012, 23.01.2013, 25.03.2013 and 14.05.2013.

1.2 Members of the University Court

Chairman

Prof. Dileep N. Deobagkar, Vice-Chancellor (Ex-Officio), (upto 19.06.2012)

Dr. S. R. Shetye, Vice-Chancellor (Ex-Officio), (w.e.f. 17.09.2012)

Nominees of the Executive Council

Deans of Faculties

Prof. J. A. E. Desa, Dean, Faculty of Natural Sciences.

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

Prof. Nandkumar Mekoth, Dean, Faculty of Management Studies.

Prof. Rajesh B. Lohani, Dean, Faculty of Engineering.

Shri A. S. Nadkarni, G. R. Kare College of Law.

University Professors

Prof. P. K. Sharma, Professor, Department of Botany.

Prof. P. R. Rao, Professor, Department of Computer Science and Technology.

Prof. (Smt.) Saroj N. Bhosle, Professor, Department of Microbiology.

Prof. M. K. Janarthanam, Professor, Department of Botany.

Prof. H. B. Menon, Professor, Department of Marine Science.

Principals of Affiliated Colleges

Mrs. Carol Noronha, Institute of Nursing Education, Bambolim, Goa.

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

Dr. (Sr) Aradhana A. C., Carmel College of Arts, Science & Commerce, Nuvem.

Dr. Aruna Bale, Shree B. S. P. G. Ayurvedan M. and Research Centre, Shiroda.

Rev. Fr. Jose Walter Benigno, St. Xavier's College of Arts, Science and Commerce, Mapusa.

Elected Members

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

Dr. Naguesh Colvalkar, D. S. E. S. V. M. S. College of Law, Miramar.

Dr. Jude Rodrigues, Goa Medical College, Bambolim.

Dr. Madhu Ghodkirekar, Goa Medical College, Bambolim.

Dr. B. P. Sarath Chandran, Shree Damodar College of Commerce and Economics, Margao.

Mrs. Tanya Marchon e Mascarenhas, Rosary College of Arts and Commerce, Navelim.

Shri B. R. Kulkarni, Goa College of Engineering, Farmagudi.

Dr. Tushar Shamba Anvekar, St. Xavier's College of Arts, Science and Commerce, Mapusa.

Dr. Vidhyadatta M. Shet Verenkar, Department of Chemistry.

Dr. Koshy Tharakan, Department of Philosophy.

Dr. Sanjeev C. Ghadi, Department of Biotechnology.

Nominees of the Executive Council

The Chairman/President, Dhempe Charities Trust, Dempo House, Panaji.

The Chairman/President, Fr. Agnel College of Arts and Commerce, Pilar.

The Chairman, Goa University Students' Council, Goa University.

Nominees of the Chancellor

Padma Vibhushan Dr. Anil Kakodkar, Department of Atomic Energy Commission, Mumbai.

Prof. N. Balakrishnan, Assistant Director, S. E. and R. Centre, Bangalore.

Shri Nitin Kunkolienkar, Former President, Goa Chamber of Commerce and Industry.

Shri Gerad D'Cunha, Porvorim.

Nominees of the State Government

Dr. Sitaram 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.

Ex-Officio Member Secretary

Registrar, Member Secretary, (Ex-Officio)

During the year 2012-2013, meeting of the Court was held on 26.03.2013.

1.3 Members of the Academic Council**Chairman**

Prof. Dileep N. Deobagkar, Vice-Chancellor (Ex-Officio), (upto 19.06.2012)

Dr. S. R. Shetye, Vice-Chancellor (Ex-Officio), (w.e.f. 17.09.2012)

Deans of the Faculties

Dean, Faculty of Languages & Literature (Ex-Officio).

Dean, Faculty of Social Sciences (Ex-Officio).

Dean, Faculty of Natural Sciences (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 Medicine (Ex-Officio).

Dean, Faculty of Engineering (Ex-Officio).

Dean, Faculty of Law (Ex-Officio).

Dean, Faculty of Performing, Fine Arts & Music (Ex-Officio).

Dean, Faculty of Education (Ex-Officio).

Dean, Faculty of Design (Ex-Officio).

University Professors

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

Prof. Somayaji Ganesh, Department of Sociology.

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

Prof. Santosh G. Tilve, Department of Chemistry (Organic).

Prof. S. M. Tadmokkar, Department of Marathi.

Principals of Affiliated Colleges

Dr. Radhika S. Nayak, S. S. Dempo College of Commerce and Economics.
Dr. Gopalkrishna Rao, Goa College of Pharmacy.
Dr. Ida de Noronha de Ataide, Goa Dental College and Hospital, Bambolim.
Dr. R. V. Gaonkar, Parvatibai Chowgule College, Margao.
Dr. Simao Diniz, Rosary College, Navelim, Salcete, Goa.
Shri Bhaskar Naik, Govt. College of Arts, Science and Commerce, Quepem.
Dr. Anil S. Dinge, Principal, PES College of Arts, and Science Ponda-Goa.
Shri Santosh B. Patkar, Saraswat V's S. C. College of Commerce and Management Studies, Mapusa.
Dr. V. Mariappan, Agnel Charities, Agnel Seva Sangh, Assagao, Bardez.

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. Nandkumar Kamat, Department of Botany.

Representative of SC/ST Category

Shri Prakash Shankar Velip, Ex-MLA of Quepem Constituency, Quepem.

Elected Members

Shri Nikhil Madhukar Vererkar, S. S. Dempo College of Commerce and Economics, Panaji.
Dr. Anthony P. Rodrigues, Fr. Agnel College, Pilar.
Dr. Ketan Govekar, Dhempe College of Arts and Science, Miramar
Dr. Sanjay Sawant Dessai, Shree Damodar College of Commerce and Economics, Margao
Dr. Debasish Mazumdar, Parvatibai Chowgule College of Arts and Science, Margao.
Dr. Jeronimo G. Remigio Monteiro, P.E.S. College of Arts and Science, Ponda.
Dr. Vikas J. Pissurlekar, P.E.S. College of Arts and Science, Ponda.
Shri Rajasekhar Bathini, St. Xavier's College of Arts, Science and Commerce, Mapusa.
Shri Amrut Fati Naik, D.M's College of Arts, Science and Commerce, Mapusa.

Nominees of the Chancellor

Padmashree Fr. Romualdo D'Souza, Xavier Institute of Historical Research, Porvorim.
Prof. V. Shivkumar, Chennai.
Smt. Nandini Sardesai, Mumbai.
Smt. Pallavi Dempo, Chairman, Dhempe College of Arts and Science, Miramar.
Shri P. F. X. D'Lima, Director, Goa Institute of Management, Sanquelim.
Director, National Institute of Oceanography, Dona Paula, Goa (Ex-Officio).
Chairman, Goa Board of Secondary and Higher Secondary Education, Porvorim, Goa (Ex-Officio).
Librarian, Goa University (Ex-Officio).

Ex-Officio Member Secretary

Registrar, Member Secretary (Ex-Officio).

1.4 Members of the Planning Board

Chairman

Prof. Dileep N. Deobagkar, Vice-Chancellor (Ex-Officio), (upto 19.06.2012)

Dr. S. R. Shetye, Vice-Chancellor (Ex-Officio), (w.e.f. 17.09.2012)

Nominees of the Executive Council

Prof. H. B. Walikar, Vice Chancellor, Karnataka University, Dharwad.

Prof. J. A. E. Desa, Dean, Faculty of Natural Sciences.

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

Nominees of the Vice-Chancellor

Adv. Narendra Savaikar, Ponda-Goa.

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

Dr. D. B. Arolkar, DM's College of Arts, Science & Commerce, Assagao.

Nominees of the Chancellor

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

Nominee of the University Grants Commission

Dr. Sandeep Khanna, New Delhi.

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 Bhobe, 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 and Literature.
Prof. N. S. Bhat, Faculty of Social Sciences.
Prof. J. B. Fernandes, Faculty of Natural Sciences.
Prof. G. N. Nayak, Faculty of Life Sciences and Environment
Prof. Y. V. Reddy, Faculty of Commerce.
Prof. Nandakumar Mekoth, Faculty of Management Studies.
Prof. Mahesh Sardessai, Faculty of Medicine.
Dr. N. Somayaji (w.e.f. 01.06.2009 – 30.03.2012)
Prof. R. B. Lohani, Faculty of Engineering (w.e.f. 19.04.2012)
Dr. Marian Pinheiro, Faculty of Law (w.e.f. 08.11.2009 – 31.05.2012)
Shri Arun S. Nadkarni, Faculty of Law (w.e.f. 11.06.2012)
Shri M. V. Vengurlekar, Faculty of Performing, Fine Arts and Music (w.e.f.09.01.2012)
Dean, Faculty of Education.
Dean, Faculty of Design.

1.7 Officers of the University

Dr. Satish R. Shetye, Vice Chancellor.
Prof. V. P. Kamat, Registrar.
Shri Uttam B. Naik, Finance Officer.
Dr. V. Gopakumar, Librarian.
Shri M. Shreedhara, Deputy Registrar (Academic).
Shri D. A. E. Rodrigues, Deputy Registrar/Controller of Examination (Gen. Admn.).
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 S. Bandodkar, Systems Analyst.
Shri A. A. T. H. Rosa, Systems Analyst.
Shri Damodar M. Manjrekar, Programmer.
Shri L. V. Macedo, Asstt. Registrar.
Shri A. Fernandes, Asstt. Registrar.
Smt. B. T. A. D'Mello e Daniel, Asstt. Registrar.
Smt. S. S. Figueiredo, Asstt. Registrar.
Smt. Maya R. Sawant, Asstt. Registrar.
Shri Ashok J. Nagarsekar, Asstt. Registrar.
Smt. Sharayu J. Chari, Asstt. Registrar.
Smt. Maya S. Gaitonde, Asstt. Registrar.
Shri S. S. Talaulikar, Asstt. Engineer.
Shri R. S. Parsekar, Asstt. Engineer.
Shri Sachin G. Narvekar, Asstt. Engineer.
Smt. Sandhya S. S. Neurekar, Asstt. Registrar.
Shri Amey Verenkar, Asstt. Registrar.

1.8 Other Bodies/Associations and their Composition

Goa University Teachers' Association (G.U.T.A.)

Prof. B. R. Srinivasan, <i>Chairman</i>	Dr. A. J. Jayanthan, <i>Vice-Chairman</i>
Prof. H. B. Menon, <i>Secretary</i>	Dr. M. S. Dayanand, <i>Jt. Secretary</i>
Dr. P. K. Sudarsan, <i>Treasurer</i>	Dr. Usha Muraleedaran, <i>Member</i>
Prof. R. Roy, <i>Member</i>	Prof. K. Mahender, <i>Member</i>

University and College Teachers' Association

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>

Executive Committee of the Association of Officers of Goa University

Shri Mrityunjoy Chakraborty, <i>President</i>	Smt. Sharayu Chari, <i>Treasurer</i>
Shri A. Fernandes, <i>Member</i>	Smt. B.T.A. D'Mello e Daniel, <i>Member</i>
Shri Milton Fernandes, <i>Member</i>	Shri Ashok Nagarsekar, <i>Secretary</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, <i>Joint Secretary</i>	Shri Usman S. Ali Shaikh, <i>Member</i>
Shri Santosh R. Vernekar, <i>Treasurer</i>	Shri Yoganand Kholkar, <i>Member</i>

University Employees Co-operative Credit Society

Shri Shaikh M. Aslam, <i>Chairman</i>	Shri Ganadhish Keny, <i>Vice-Chairman</i>
Shri Gangaram Naik, <i>Secretary</i>	Shri Nanda Gawas, <i>Treasurer</i>

PART 2:

UNIVERSITY DEPARTMENTS/CENTRES/PROGRAMMES

2.1: Faculty of Languages and Literature

2.1.0 General information - Departments and Degrees:

Department of English	(M. A., Ph. D.)
Department of Hindi	(M. A., Ph. D.)
Department of Konkani	(M. A., Ph. D.)
Department of Marathi	(M. A., 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)
B. K. Sharma	Member
A. R. Fernandes	Member
V. Mandrekar	Member
V. D. Sawant	Member
Madhavi Sardessai	Member
Edith Melo Furtado	Member
	Member

Department of English

Faculty:

K. S. Bhat, Ph. D., Professor (Sabbatical Leave from June 2012- May 2013) - Literary Theory, Critical Theory and Cultural Studies.

Kiran Budkuley, Ph. D., Professor & Head - British Poetry, Culture and Gender Studies, Indian Literature, Translation Studies.

Nina Caldeira, Ph. D., Associate Professor - Goa Cultural Studies, Post-Colonial Literature, Linguistics, American Literature.

Andre Rafael Fernandes, Ph. D., C.E.L.T.A., Associate Professor - Novel, Linguistics, Commonwealth Literature, Language Laboratory-ICT.

Major thrust area of Research and Achievements:

Cultural Studies, Gender Studies, Post-colonial Studies, Fiction Studies, Goa-related Studies, Konkani Tiatr, Goan Literature and Culture, Translation Studies.

Sponsored Consultancy Work undertaken:

- **K. Budkuley**, Translation Project, World Konkani Foundation, Mangalore (2009 onwards) as per actuals.

Seminars/Conferences/Workshops, etc organized:

- 'CynoSangam', Inter-collegiate Literary Meet, Department of English, Goa University and Kala-Akademy, Panaji, 20 February 2013.
- 'Goa Matters', Department of English, Goa University, 22 March 2013.
- 'Anuvad Pragalbhini' Advanced Workshop on 'Translation Theory and Application'. Department of English, Goa University and Goa Konkani Academy, Panaji, at Goa University, 16-21 May 2013.
- 'Mediating the Media', one day Workshop for publication and media-centric Career Guidance, Department of English, Goa University, Goa University, 13 March 2013.
- One-day Workshop on 'Telecasting Techniques for Journalism Students' Department of English, Goa University and Goa Doordarshan, Goa Doordarshan Studio, 12 March 2013.

Research Publications:

a. National/International Journals:

- **K. Budkuley**, 'Gomantakiya Asmita: Shodh ani Bodh', *Vivek*, pp. 34-38, 2012 (in Marathi), National.
- **K. Budkuley**, 'Konkani Balsahitya anni Anuvad', *Mai Mavshi: Antarbharati Sahitya Samvad* 6:13-18, 2012 (in Marathi), National.

b. Books/Monographs published:

- **K. Budkuley**, 'Musings in the Meadows: Essays in Goan Literature and Culture' Sanjana Publication, 2012. (Publication grants by Directorate of Art and Culture, Goa.)

Awards/Honours Conferred:

- **K. Budkuley**, Goa Konkani Akademi's 'Sarvotkrushta Konkani Granth Puraskar- 2012 Award' for Outstanding Konkani Book, 2012.
- **K. Budkuley**, nominated member of Advisory Committee, Kala Academy, Goa.
- **K. Budkuley**, nominated member of Evaluation Committee by Directorate of Official Language, Government of Goa.
- **K. S. Bhat**, Visiting Professor, New York University in October 2012 - delivered lecture on Gandhi's Hind Swaraj.
- **K. S. Bhat**, Visiting Professor, Memorial University, Newfoundland, Canada in September-October 2012 - delivered lectures on 'Saussure, Derrida and Gandhi'.
- **Andre Rafael Fernandes**, invited by Thomas Stephens Konknni Kendr, Porvorim to be a member of the Advisory Committee of TSKK.

Papers presented in Seminars/Conferences/Workshops, etc.:

- **K. S. Bhat**, National Seminar 'Narrative Semantics: Texts, Contexts, Remediations' Poornaprajna College, Udipi, Karnataka, 11-12 January 2013, 'Literature, Language and Ideology'.
- **K. S. Bhat**, National Seminar 'Multiculturalism in Indian English Literature' SMS Mohite, Patil College, Rahimatpur, 26-27, February 2013, 'Concept of Multiculturalism'.
- **K. S. Bhat**, National Seminar 'Literary Theory and Practice: Changing Perceptions', P. G. Dept. of English, Government College, Kasargod, Kerala, 29 January 2013, 'Saussure and Derrida on Language and Meaning'.
- **K. Budkuley**, National Seminar 'Genre-Fiction', B. R. Mane Mahavidhyalaya and Shivaji University, Kagal-Kolhapur, 18-19 January 2013, 'Plenary Talk on Genre-Fiction: From a Contemporary Perspective'.
- **K. Budkuley**, State-level Workshop 'Translation organized by the Directorate of Official Language, Goa', 24 April 2013, 'Translation Skills'.
- **K. Budkuley**, National Seminar 'Pedagogy in the Study of Language and Literature in the Age of Multiculturalism', Parvatibai Chowgule College, Margao, Goa, 30 October 2012, 'Translation Studies in the Age of Globalization and Multiculturalism'.
- **K. Budkuley**, National Seminar cum Workshop 'What is Classic', Sahitya Akademy, Udaipur, 1-4 October 2012, 'Classics in Konkani'.
- **K. Budkuley**, National Seminar 'Ideology, Values and Society', Goa University, 25-26 June 2012, 'Ideology, Value and Society: A Literary Perspective'.
- **A. R. Fernandes**, 'Decolonisation, Development and Diaspora : The Afro-Indian Experience', Indian Council of World Affairs, New Delhi, Ministry of External Affairs and Government of Goa, International Centre, Goa, 3-5 June 2012, 'From Goa to the Diaspora : Music and Tiatrs'.
- **A. R. Fernandes**, 9th Continental Asia CFM/CFSM Conference : Mission and Tasks of the Family in a Globalised Society, Continental Asia Christian Family Movement/ CF and Social Movement of the International Confederation of CFMs, Betania Retreat House, Nivel Hills, Lahug Cebu City, Philippines, 25-28 October 2012, 'Social Costs and Benefits of Globalisation'.

- **A. R. Fernandes**, 9th International Congress on English Grammar: Lexicogrammar and the New Millennium Learners, VIT University, Vellore; Systemic Functional Linguistics, VIT University, Vellore, 3-5 January 2013, 'Enhancing Learning through Multimedia'.
 - **A. R. Fernandes**, XIV International Seminar on Indo-Portuguese History, 'India, the Portuguese and the Indian Ocean Societies: Exchanges and Engagements'. JNU, Delhi University, Jamia Millia, ICCR, ICHR and Fundação Calouste Gulbenkian, India International Centre, New Delhi, 11-13 February 2013, 'Tiatr - its development and scope for study'.
-

Department of Hindi

Faculty:

Ravindranath S. Mishra, Ph. D., Professor and Dean, - Medieval, Modern and Contemporary Poetry, Indian Poetics, Translation, Mass Media and Journalism.

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

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

Visiting Scholars:

- **Prof. Chandra Sadayat**, Hindi Sahitya ka Madhyakal, 26 July 2012.
- **Ramdeo Shukla**, Gorakhpur, Kabir ki Samajik Chetna, Jaysi ki Virhannubhuti Kamayani mein Yugbodh Tulsi ki Lokvadi Drushti Ghanaanand ka Kavya Saundarya, 28 -30 July 2012.
- **Dr. Arvind**, NIO, Premchand, 22 August 2012.
- **Prof. Baburam**, Kurushetra University, Rajbhasha Hindi, 21 January 2013.
- **Prof. Harmahendra Singh**, Punjab University, Dhumil, 21 January 2013,
- **Dr. Satyadev Tripathi**, SNTD, Mumbai, Dhumil, 13 February 2013.
- **Dr. Satish Pandey**, Kalyan, Dhumil ka kavya, 5 March 2013.
- **Dr. Sanjeev Dubey**, Rajesh Joshi ka kavya, 5 March 2013.
- **Prof. B.D. Mishra**, Varanasi, Dhumil, 11 March 2012.

Major thrust area of Research and Achievements:

Indian literature, functional Hindi, Translation and Mass Media, Social work comparative studies.

Seminars/Conferences/Workshops, etc organized:

- 'Ekkisavi sadi ka etar gadya sahitya vimarsh', 14-15 February 2013 jointly organized by Department of Hindi, Arvind Pandey Manch, Goa University and UGC, New Delhi.

Research Publications:

a. National/International Journals:

- **I. B. Khan**, Hindi Urdu Ghazal: Aik drishtichepe, Goapuri (special issue) VIII, 2012, pp. 224-237, National.

b. Books/Monographs published:

- **R. Mishra**, 'Media aur loktantra', Vani Prakashan, New Delhi, 2012-13.
- **R. Mishra**, 'Antim Dashak ki Hindi Kavita', Lokbharathi Prakashan, Allahabad, 2012-13.

c. Articles in Books/Proceedings:

- **I. B. Khan**, 'Lokgeetoan mein chitrit gram naari', pp. 149-158, Hindi evam Konkani lokgeet, Eds. Rohitashva and Chandralekha D'souza, Academic Pratibha, Delhi, 2012.

- **I. B. Khan**, 'Sukha bargad: Hindu Muslim soach ka dastavez', pp. 72-77, Hindi ke kaljyee upanyas, Ed. O. P. Tripathi, Vidhya Prakashan, Kanpur, 2012-13.
- **V. S. Mandrekar**, 'Konkani lokgeet : vividh sandharbha', pp. 184-188, Hindi evam Konkani Lokgeet, Eds. Rohitashva and Chandralekha D'souza, Academic Pratibha, Delhi, 2012.
- **V. S. Mandrekar**, 'Dharavahik: prashno ke ghere mei', pp. 57-61, Media Aur Loktantra, Ed. Ravindranath Mishra, Vani Prakashan, New Delhi, 2012-13.

Number of Ph.Ds awarded: 01

Papers presented in Seminars/Conferences/Workshops, etc.:

- **R. N. Mishra**, Bhasha ki Asmita aur Hindi ka Vaishavik sandharbh, 9th Vishwa Hindi sammelan Ministry of External Affairs, Government of India, Johannesburg, South Africa, 22-24 September 2012, 'Loktantra aur media ki Bhasha ke rup mein Hindi'.
- **R. N. Mishra**, Bhartiya sahitya ka parikalp, Hindi tatha Adhunik bhartiya vibhag, Lucknow University evam bhartiya Hindi parishad, Allahabad, Lucknow University, 17-18 November 2012, 'Goa mein Hindi bhasha aur sahitya ka paridrishya'.
- **R. N. Mishra**, Aatmakatha evam sansmaran : mahila lekhan ke vividha swar, Carmel College, Nuvem, Nuvem Goa, 12 December 2012, 'Aatmakatha evam sansmaran ka swarop gat vishleshan'.
- **R. N. Mishra**, Ramsahitya ka vaishavik sandharbh, M.T.B. Arts College, Surat- Ayodhya Shodh Sansthan evam Bhartiya Hindi Parishad, Allahabad, M.T.B. Arts College, Surat, 23-24 February 2013, 'Hinditar Rajyo ka Hindi lekhan evam Vartaman Sandarbha mein Ram Sahitya ki Prasangeekta'.
- **I. B. Khan**, 21st sadi ke pahle dashak ka dalit vimarsha aur bhartiya sahitya, Prayas Hindi Sansthan, Panjim, T.B. Cunha Sabhagrah, Panaji Goa, 29 September 2012, 21^{vin} shati ke pehle dashak ki dalit urdu shairy.
- **I. B. Khan**, Aatmakatha avam sansmaran: Mahila lekhan ke vividh swar, Carmel College, Nuvem, 12 December 2012, 'Hasmat' ki nazroan se sahityakaroan ki yaad'.
- **I. B. Khan**, 21st sadi ka mahila katha – lekhan: Dasha avam Disha, Carmel college, Nuvem, 5 February 2013, 'Andhere ka tala: shakstik parisar ka sach'.
- **I. B. Khan**, 21^{vin} sadi ka itar Gadya – sahitya vimarsh, Conference Hall, Goa University, Department of Hindi and Arvind Pandey Manch, Goa, 14–15 February 2013, 'Smruti – Aakhyan ka naya andaz : "Nangatalai ka goan"'.
- **V. S. Mandrekar**, 21st sadi ke pahle dashak ka dalit vimarsha aur bhartiya sahitya, Prayas Hindi Sansthan, Panjim, T.B. Cunha sabhagrah, Panaji Goa, 29 September 2012, Dalit vimarsh : Mukti ki pukar.
- **V. S. Mandrekar**, 21st sadi ka mahila katha – lekhan: Dasha avam Disha, Carmel college, Nuvem, 12 December 2012, 'Sej par sanskriti: Dasha avam Disha.
- **V. S. Mandrekar**, 21^{vi} sadi ka itar Gadya – sahitya vimarsh, Conference Hall, Goa University, Department of Hindi and Arvind Pandey Manch, Goa, 14–15 February 2013, 'Pravali Natya Sahitya'.
- **V. S. Mandrekar**, Pravasi Sahitya, Bhusaval College, 1-2 February 2013, 'Pravasi Natya Sahitya'.

Department of Konkani

Faculty:

P. S. Tadmokkar, M. A., Associate Professor and Head – Drama, Modern Konkani Prose and Poetry, Literary Criticism and Research Methodology.

Madhavi Sardesai, Ph. D., Associate Professor - General Linguistics, Sociolinguistics, Works of Shennoi Goembab & Translation Studies.

Prakash Parienkar, M. A., M. Com. Assistant Professor – Old Konkani Literature, Konkani Folklore, Feminist Literature, Sociological Study of Literature.

Visiting Scholars:

- **Rajay Pawar** (Asst. Prof.), Government College, Quepem, Konkani Poetry.
- **Madhav Borkar** (Asst. Director), All India Radio, Panaji, Criticism in Konkani.

Major thrust area of Research and Achievements:

Film Study, Konkani Folklore, Media Study, Translation Studies, Tiatro, *etc.*

Sponsored Research Projects sanctioned:

- **M. Sardesai**, Co-P. I., Shallow Parser Tools for Indian Languages Konkani Indian Languages Corpora Initiative (ILCI) Phase - 2 March 2012 Two and half years Department of Electronics and Information Technology (DEITY) New Delhi, Rs. 40 lakhs.

Ongoing/completed projects:

- **M. Sardesai**, Co-P. I., Indradhanush Wordnet Project, August 2010 to 31 October 2013, DEITY, New Delhi, Rs. 20 lakhs.

Seminars/Conferences/Workshops, etc organized:

- Nagari Lipi Parishad, 19-20 January 2013, Nagari Lipi Parishad, New Delhi.
- Poetry and work of Naguesh Karmali, 26 March 2013, Goa University.

Research Publications:

a. National/International Journals:

- **M. Sardesai**, Konkani Gadyaacho Aantarik Layechyaa Sandarbhaant Konkani Padyaacho Abhyaas: Ek Yatn (A Perspective on meter and rhythm in Konkani Poetry), *Jaag* 38 (3): 3-6, 2012, National.
- **M. Sardesai**, Konkani Chalwal: Ek Niyall Aani Mulyaankan Samajbhasvindyantik Nadar“(assessment of the Konkani Language Movement from a Sociolinguistic perspective)”, *Jaag* 39(2): 3-8, 2012, National.
- **M. Sardesai**, Konkani Khatir Devnagri: Faatbhumi aani, *Background and Result* 39(9):6-9, May 2013, National.

b. Books/Monographs published:

- **M. Sardesai**, Manthan (Collection of Research articles with bibliographical references and index), Jaag Prakashan, Margao Goa, July 2012.
- **M. Sardesai**, Antim Dashak ki Hindi Kavita, Lokbharathi Prakashan, Allahabad, 2012-13.
- **P. Parienkar**, Saimachi od Lavpi Ani Paryavaranachyem Mahatv Patovan Divpi Pustak, A book review on Dinesh Manerkar's Konkani book Ranvallkha, *Jaag*, August 2012.
- **P. Parienkar**, Konkani Kavita Atam Lokbhasshetlyan Ukti Javpak Lagalya – a book review, *Jaag*, February 2013.
- **P. Parienkar**, Amche ami, Shalmali creations, Dhava Tar Sattari Goa.

c. Articles in Books/Proceedings:

- **M. Sardesai**, Shubhechhya kaviteachya Eka Mishenarik, *Jaag*, 39(1):3-5, August 2012.
- **M. Sardesai**, Katha Eka Film chi (an article in two parts), *Jaag*, 39(3):3-8, October 2012 and January 2013.
- **M. Sardesai**, Dispattentali Paana, *Jaag*, 39(4): 76-83, November–December 2012.
- **M. Sardesai**, Arannyacho Adhikar, *Jaag*, 39(7): 3-7, March 2013.
- **M. Sardesai**, Konkani Suvaat konkani kadun Mellunk Jaay, *Jaag*, 39(8): 3-8, April, 2013.
- **M. Sardesai**, Tato: Bhurgapannant ek Ugddas-Bhownddi, *Jaag*, 38(30):3-8, January to March 2012.
- **M. Sardesai**, Ravindrabadalem Vachpaghar, *Bimb*, 11(4), April 2012.

Awards/Honours Conferred:

- **P. S. Tadmokdar**, nominated as member of Executive Committee of Goa Konkani Academy.
- **P. S. Tadmokdar**, nominated on the CIIC Mysore's Grant in Aids Advisory Board at State level.
- **M. Sardesai**, nominated on the State Level Advisory Board for Effective Implementations of the Official Language Act, August 2012.

Number of Ph. Ds awarded: 02**Papers presented in Seminars/Conferences/Workshops, etc.:**

- **P. S. Tadmokdar**, Rosary College, Navelim, 24 August 2013, 'Konkanitalyo hare modi and tantutlem Sahitya'.
- **P. S. Tadmokdar**, Resource person, Workshop at CSTT and NTM, Mysore, 3-14 October 2013, 'History Political Science and Sociological Terminology in Konkani'.
- **M. Sardesai**, Conference 'Latest Trends in Library Developments' Goa State Central Library, Panaji, 4 April 2013, 'Relationship of the Librarian with the Readers'.
- **M. Sardesai**, Conference 'One Language Many Scripts', Sahitya Akademi New Delhi, Calangute Goa, 9-10 March 2013, 'Review of Literature in the Devnagari Script'.
- **M. Sardesai**, 22nd European Conference 'South Asian Studies', ISCTE- University Institute of Lisbon, Lisbon Portugal, 25-28 July 2012, 'On a trail with Konkanno'.
- **M. Sardesai**, Conference 'Language contact in India: Historical, typological and Sociolinguistic Perspectives', Department of Linguistics, Deccan College, Pune in

collaboration with CIIL, Mysore, Pune, 6-8 February 2013, 'Goan Diglossia: Cultural Identity : Comparative Perspective'.

- **P. Parienkar**, '21st Akhil Bhartiya Konkani Sahitya Sammelan', Akhila Bhartiya Parishad in collaboration with Konkani Bhasha Mandal Goa, Ravindra Bhavan, Margao, 15-17 February 2013, 'Konkani Sahityat badalya Samajache Chtran'.
- **P. Parienkar**, 'Samakalin Bhartiya Sahitya', Carmel College of Arts, Science and Commerce, Nuvem, 22-23 January 2013, 'Samakalin Konkani Kadambari Sadya Stiti Ani Fudar'.

Number of Radio/TV interviews/popular articles: 01

Department of Marathi

Faculty:

S. M. Tadkodkar, Ph. D., Professor and Head - Modern Form of Literature, Literary Criticism, & Christian Marathi Literary Tradition of the 17th Century in Goa.

V. D. Sawant, Ph.D., Professor - Modern Form of Literature, Literary Criticism.

B. G. Kanolkar, Ph.D., Associate Professor - Modern Form of Literature, Folk Literature.

S. S. Umraskar, Ph. D., Assistant Professor - Medieval Marathi Literature, Linguistics, Modern form of Literature.

Major Thrust Areas of Research and Achievements:

Marathi Grammar and Modern Linguistics, Marathi language and its literature (folk literature, Goan Marathi literature, Dalit Literature, Christian Tradition in Marathi Literature during the 17th Century in Goa and Modern Trends in Literary Theories.

Infrastructure: Well equipped Computer Laboratory.

Seminars / Conferences/Workshops etc organized:

- National Seminar 'Nature and Problems of Socio-Linguistics – A Post 1980 scenario', 22 March 2013, Department of Marathi, Goa University and UGC.

Research Publications:

a. National/International Journals:

- **S. M. Tadkodkar**, Research contribution of Dr. V. B. Prabhudesai, *Govapuri*, Institute Menezes Braganza, Panaji, Goa, II (1):8.37, 2012.
- **S. S. Umraskar**, Dr. V. B. Prabhudesai yani kelele Christi Marathi Sahityache Sanshodhan, *Govapuri*, II (1): 38-55, 2012.

Papers presented in Seminars/Conferences/Workshops, etc.:

- **S. M. Tadkodkar**, A National Seminar on 'Theological Discourse in Modern India during the 19th Century', Sant Namdeo Chair, Pune University, Maharashtra, 22-23 February 2013, 'Nature of Theological Discourse in Christianity in Goa during the 17th Century'.
- **S. M. Tadkodkar**, A National Seminar on 'New Dimension to the Research Studies in Dialect and Languages', North Maharashtra University, Jalgaon and Maharashtra State Literary and Cultural Department, Mumbai, Jalgaon, Maharashtra, 28 December 2012, 'Problems in verifying Old Dialects in Marathi Language'.
- **V. D. Sawant**, 'Pu. Shri. Narvekar Yanche Sahitya', Smt. Partibai Chowgule College, Margao, 1-2 February 2013, 'Contribution of P. S. Narvekar to Goan Marathi Literature'.

Department of French and Francophone Studies

Faculty:

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

Edith Melo Furtado, Ph.D., Associate Professor - French and Francophone Literature, French-Canadian Studies and Culture Studies (with special reference to Goa).

Visiting Faculty:

Gildas Gressant, M. A., Tutor in French - Methodology of Teaching French, French language and Culture.

Maria Theresa Abranches, M. A., - French language and Civilisation.

Visiting Scholars:

- **Dr. Dominique Abry**, Université de Grenoble, Atelier Phonétique, 20 February 2013.
- **Dr. Samuel Archibald**, Université de Montréal, Presentation of author's prize winning book 'Arvida' in English, 7 March 2013.
- **Dr. Chowra Makaremi**, Université de Montréal, Azziz's Notebook – presentation of the book and the political background of Iran, 26 March 2013.

Major Thrust Areas of Research and Achievements:

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

Seminars/Conferences/Workshops, etc organized:

- Workshop in French 'Le Quebec et son Histoire', by Dr. Samuel Archibald, 7 March 2013.

Research Publications:

a. National/International Journals:

- **A. Wagle**, 'La Francophonie Indienne- Un double défi pour les professeurs de français', Jacqueline Meunier- Beatrice Atherton- Francoise Grauby- Michele Royer, Actes du Congrès - Le français et la diversité francophone, 2ème Congrès CAP-FIPF, Sydney, Australie, Gerflint/Langers, pp. 11-14, 2013.

Placement details: 05

Awards/Honours Conferred:

- **A. Wagle**, elected Vice-President of the Fédération Internationale des Professeurs de Français (FIPF) during the 13th World Congress for French Teachers held in Durban, South Africa, July 2012.
- **A. Wagle**, invited as Visiting Fellow to the University of Hong Kong, June 2012.

Papers presented in Seminars/Conferences/Workshops, etc.:

- **E. M. Furtado**, Le français en Asie-Pacifique : la passion et la raison, Indian Association of Teachers of French and Fédération Internationale des Professeurs de Français, Chennai, 13-15 February 2013, 'Un courant de l'écriture francophone à Goa?'
 - **A. Wagle**, 'Continuing Professional Development for Secondary School Teachers in Hong Kong', University of Hong Kong and EDB Education Services Centre, Kowloon, Hong Kong, 14 June 2012, 'Développer une perspective socioculturelle chez les apprenants de français'.
 - **A. Wagle**, 13^e Congrès Mondial des Professeurs de Français : Le monde en marche L'enseignement du français entre mondialisation et contextualisation, Fédération Internationale des Professeurs de Français, Durban, South Africa, 23-27 July 2012, 'Parler de son pays, c'est faire son pays : développer la perspective socioculturelle de l'apprenant'.
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Department of Portuguese

Faculty:

Delfim Correia da Silva, M. Phil., Visiting Lecturer - Portuguese Literature, Portuguese Linguistics, Portuguese Culture.

Marise D'Lima, M. A. - One year contract basis, Indo-Portuguese Literature.

Maria do Céu Barreto, M. A., Lecture basis - Portuguese and Brazilian Literature.

Scarlet Fernandes, M. A., Lecture basis - History of Portuguese Language and Linguistics.

Visiting Scholars:

- **Mr. António de Souza Menezes**, Former Ambassador of European Union, The European Union and its institutions and Portugal's integration in the EU, 29 October and 7 November 2012.
- **Prof. Francisco Veres Machado**, Ph.D. scholar at SOAS, School of Oriental and African Studies, University of London, Series of Lectures on 'The New Portuguese Cinema and the French *Nouvelle Vague*', October and November 2012.

Seminars/Conferences/Workshops, etc organized:

- Workshop on 'Learning, Teaching and Assessments in the Methodology of Tasks Based Language Teaching', 6 August 2012, Goa University and Goa Board of Secondary and Higher Secondary Education.
- Conference and Book Exhibition on 'Goan Writers in Lisbon (Portugal)', 12 and 15 October 2012, Committee of IV Semana da Cultura Indo-Portuguesa (Goa), Camões I.P.
- IV Multilingual Reading Session on the World Poetry Day, 21 March 2013, Goa University.
- Conference 'Garcia de Orta - a Gateway to the knowledge on the medicinal plants of India', 10 April 2013, Portuguese and Botany Departments, Goa University and State Goa Central Library.

Awards/Honours Conferred:

- **Ms. Renée Sofia Maria Pinto**, awarded Scholarship from Camões I.P. (Portugal) to attend an annual Course in Coimbra (Portugal).
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2.2: Faculty of Social Sciences

2.2.0 General information - Departments and Degrees:

Department of Economics	(M. A., Ph. D.)
Department of Sociology	(M. A., Ph. D.)
Department of Philosophy	(M. A., Ph. D.)
Department of History	(M. A., Ph. D.)
Department of Political Science	(M. A., 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)
S. M. Noronha	Member
N. Shyam Bhat	Member
Sanjyot Vernekar	Member
Dattesh Parulekar	Member

Department of Economics

Faculty:

S. M. Noronha, Ph. D., Associate Professor - Labour Economics and Industrial Relations, Development Economics.

P. K. Sudarsan, Ph. D., Associate Professor - International Economics, Economics Theory, Applied Economics.

P. Mukhopadhyay, Ph. D., Associate Professor and Head - Macroeconomics, Growth & Environment.

Temporary Faculty:

M. D. Aiholi, M. A., Assistant Professor - Financial Economics, Public Economics.

Sumita Datta, M. A., Assistant Professor - Mathematical Economics, Statistics, International Trade & Finance, Microeconomics.

Visiting Scholars:

- **Dr. Julie Mueller**, Northern Arizona University (Fulbright Nehru Fellowship), Estimating the Non-market Value of Forest Restoration Using Dichotomous-Choice Contingent Valuation, 31 October 2012.
- **Dr. Ulrike Grote**, Director, Institute for Environmental Economics and World Trade Leibniz University, Hanover, Germany (UGC-DAAD Exchange of Scientist Programme), The Implications of Green Growth Strategies in OECD and Emerging (BRIC) Countries for Least Developed Countries, 4 October 2012.
- **Mr. Anil Kher**, Chairman, CII-Goa Council, and Managing Director, Micro Interconnexion Pvt. Ltd., Goa's Economy, Part I, 20 December 2012.
- **Prof. Sugata Marjit**, Centre for Studies in Social Sciences, Calcutta, Regulating the Informal Sector – Political Economy of Public Policy, 8 January 2013.
- **Dr. Ashish Kothari**, Founder Member, Kalpavriksh, India's Growth Sustainability, 9 January 2013.
- **Dr. Heribert Dieter**, Senior Associate, German Institute for International and Security Affairs, Berlin, Europe after the crisis: A big leap forward or small-scale reforms?, 3 April 2013.
- **Prof. Bino Paul**, Tata Institute of Social Sciences, Mumbai, Categorical Dependent Variable Analysis, 10 April 2013.

Major Thrust Areas of Research and Achievements:

Labour, Environment, Development and International Economics.

Infrastructure: Two Interactive Smart Boards were procured for enhanced teaching aids.

Ongoing projects/completed during June 2012-May 2013:

P. K. Sudarsan, 'Financing of University Libraries in India: An Empirical Study', October 2012, UGC, Rs.4, 29,200.

Sponsored Consultancy Work undertaken:

P. Mukhopadhyay, ICIMOD, Kathmandu, December 2012 to December 2013, Rs 60,000.

Seminars/Conferences/Workshops, etc. organized:

Workshop entitled 'Review of BA/MA Economics Courses in Goa University', 21-22 February 2013, Goa University.

Publications:**a. National/International Journals:**

- **S. Noronha, S. Falleiro**, The Impact of HIV/AIDS on the Food Consumption of Households, *The Indian Journal of Social Work*, TISS, Deonar, Mumbai 73:473-486, 2012, National.
- **S. Noronha, S. Falleiro**, Economic Impact of HIV/AIDS on Women, *Journal of Health Management*, Sage 14:495-512, 2012, International.
- **P. K. Sudarsan**, Movement of natural persons and Free Trade Agreements: India's Prospects, *Journal of International Economics* 4 (1):63-72, 2013.
- **P. Mukhopadhyay, S. Desouza**, Economic Growth and Women's Empowerment: Evaluating two lead sectors in Goa - Tourism and Mining, *Social Change and Development*, ISSN: 0975-4016, IX: 64-85, 2012.

b. Articles in Books:

- **P. Mukhopadhyay**, Information, Banking and Risk Management, *In: Goa Development Report*, Publisher: Planning Commission, Government of India, New Delhi (through Academic Foundation, New Delhi), ISBN 13: 97887880 ISBN 10: 8171887880, pp. 193-204.
- **P. Mukhopadhyay, K. S. Parikh, N. H. Ravindranath, I. K. Murthy, S. Mehra, R. Kumar, E. J. James, E. Vivekanandan**, Coastal and Marine Ecosystems, *In: The Economics of Ecosystems and Biodiversity - India: Initial Assessment and Scoping Report*. Working Document, Publisher: Ministry of Environment and Forests, Government of India, New Delhi, pp. 157.

Number of Ph.Ds awarded: 01

Awards/Honours Conferred:

- **P. Mukhopadhyay**, received the UGC-DAAD Visiting Professor Scholarship to visit the Leibniz University, Hannover, Germany, November 2012.
- **P. Mukhopadhyay**, nominated Secretary of the Indian Society of Ecological Economics (INSEE).

Papers presented in Seminars/Conferences/Workshops, etc.:

- **P. Mukhopadhyay**, Economic Instruments for Greening Development, SANDEE-Poverty Environment Initiative, SANDEE, Paro, Bhutan, International, 12-13 August 2012, 'Are we really growing? Measuring and Accounting for well-being and the environment'.
 - **P. Mukhopadhyay**, 'Development Economics Colloquium', Institute for Environmental Economics and World Trade, Leibniz Universität, Hannover, Germany, International, 14 November 2012, 'Growth and Development in South Asia'.
 - **P. Mukhopadhyay**, Invited Lecture to Visiting DAAD-IIM-IIT scholars, Technical University, Braunschweig, Germany, International, 16 November 2012, 'Economic Growth and Ecological Sustainability and Role of Knowledge Networks'.
 - **P. Mukhopadhyay**, 'Economics and Development: Theory and Practice', Department of Economics and Politics, Viswa Bharati University, Santiniketan, West Bengal, National, 16-17 March 2013, 'Economic growth and Sustainable development in South Asia'.
-

Department of Sociology

Faculty:

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

Alito Siqueira, M. A., Associate Professor - Sociology of Culture, Pedagogy, Tourism and some issues in Goan Society.

Joanna P. Coelho, Ph. D., Assistant Professor - Sociology of Language, Diaspora and refugee studies.

Mozinha Fernandes, M. A., Assistant Professor, Understanding Goa.

Major Thrust Areas of Research and Achievements:

Migration and Diaspora, development studies, Sociology of food, language issues, colonial and post-colonial constructions of village, comparative post-coloniality and tourism.

Research Publications:

a. National/International Journals:

- **G. Somayaji, M. S. D'Souza and K. S. Nairi**, Factors associated with health related quality of life among Indian women in mining and agriculture, *Health and Quality of Life Outcomes*, 11:9 doi: 10.1186/1477-7525-11-9, 2013, National.
- **G. Somayaji, M. S. D'Souza and K. S. Nairi**, Women's well-being and reproductive health in Indian mining community: need for empowerment, *Reproductive Health*, 2013, National.

Awards/Honours Conferred:

- **G. Somayaji**, Visiting Professor, College of International Relations, Nihon University, Mishima, Japan, 8-28 October 2012.

Papers presented in Seminars/Conference/Workshops, etc.:

- **G. Somayaji**, National Seminar 'Ideology, Values and Society', Centre for Studies in Civilizations, New Delhi and Department of Philosophy, Goa University, 25-26 June 2013, 'Consumption, Consumerism and Late Modernity in India: Towards a Sociology of Prosumers'.
- **G. Somayaji**, 'Challenges before the development of the minorities and backward classes in India', Department of Sociology of Sangameswar College Solapur, Maharashtra, 4-5 January 2013, 'Development of the Minorities and Backward Classes in India: Challenges and Strategies'.
- **G. Somayaji**, 'One Asia Convention, Bandung 2013', One Asia Foundation, Japan, and University of Education, Indonesia, Bandung, Indonesia, 23 March 2013, 'Towards Building One Asian Community: Some Sociological Reflections'.
- **A. Siqueira**, '22nd European Conference', European Association of South Asian Studies, Lisbon, Portugal, 25-28 July 2012, 'The Subaltern goes to School'.

- **A. Siqueira**, National Seminar and workshop, 'Education for Social Change' Xavier Centre of Historical Research, Porvorim, Goa, 18-19 January 2013, 'Voices in Higher Education: Goa 2.0'.
 - **A. Siqueira**, Round table 'UNESCO's Jacques Delors Report, 'Learning the Treasure Within', Indian Institute of Advanced Studies, New Delhi, 27 January 2013.
 - **A. Siqueira**, 'Innovation Teaching, Learning, Evaluation-Strategies, Gogate and Walke College, Banda, Maharashtra, Banda, Sawantwadi, 17-18 April 2013, 'Student centred learning'.
 - **J. P. Coelho**, National Seminar 'Ideology, Values and Society', Centre for Studies in Civilizations, New Delhi and Department of Philosophy, Goa University, 25-26 June 2012, 'Countering Himsa with Ahimsa: A Buddhist Alternative to the Tibetan Crisis'.
 - **J. P. Coelho**, International Seminar 'Human Development and Marginalization', Centre for studies in human Development, Assam University Silchar, Assam University Silchar, 18-20 March 2013, 'Human Development of the 'Doubly Marginalized': Some Preliminary Concerns of Refugees in North East India'.
 - **J. P. Coelho**, International Symposium 'Identity and Multicultural Politics', International Network for Alternative Academia, Montreal, Quebec, Canada, 29-31 October 2012, 'Re-Imagining Identity through Direct Democracy: Collective Constructions of Tibetan Refugees in India'.
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Department of Philosophy

Faculty:

A. V. Afonso, Ph. D., Professor and Head (June 2012 to December 2012 Superannuated) - Philosophy of Science and Philosophy of Religion.

U. A. Vinay Kumar, Ph. D., Associate Professor and Head (From January 2013 till date) - Indian Metaphysics, Indian Logic, Epistemology, Existentialism.

Sanjyot D. Pai Vernekar, Ph. D., Associate Professor (on leave) - Applied Ethics.

Milan Desai, Ph. D., Associate Professor - Philosophy of Science.

Koshy Tharakan, Ph.D., Associate Professor - Philosophy of Social Sciences, Phenomenology.

Major Thrust Areas of Research and Achievements:

Method of Moral reasoning, Scientific Basis of Mantras, Philosophy of Science and Commensurability Thesis, Phenomenology and Intentionalist Vs Consequentialist debate in Social Sciences, Metaphysics and Synthesis of World Religions.

Seminars/Conferences/Workshops, etc organized:

- National Seminar 'Ideology, Values and Society', 25-26 June 2012, CSC New Delhi and Goa University.
- Workshop 'Teaching of Philosophy at School Level', 19 April 2013, UGC, New Delhi.

Papers presented in Seminars/Conferences/Workshops, etc.:

- **U. A. Vinay Kumar**, delivered lecture 'Exploring Agency in the Mahabharata: Ethical, Political and Dharmic', Indian Institute of Advanced Study, Shimla, 17-30 September 2012, 'To be or not to be: The Mahabharata eternal dilemma solved'.
 - **U. A. Vinay Kumar**, delivered lecture 'Synthesis of World Religions: Arriving at the Common Metaphysical Structures', Indian Institute of Advanced Study, Shimla, 18 October 2012, 'Synthesis of World Religions: Arriving at the Common Metaphysical Structures'.
 - **U. A. Vinay Kumar**, International Seminar 'Identity and otherness', Department of Philosophy, Punjab University, Chandigarh, 6-7 January 2013, 'Self Identity in Religions'.
 - **U. A. Vinay Kumar**, National Seminar 'Contribution of Prof. M. Yamunacharya's to Philosophy', Maharaja's College, University of Mysore, 23 January 2013, 'World Religions'.
 - **K. Tharakan**, National Seminar 'Ideology, Values and Society', CSC, New Delhi and Goa University, 25-26 June 2012, "Voluntarism and Determinism: Revisiting the Intentionalist Consequentialist Debate in the Philosophy of Social Sciences'.
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Department of History

Faculty:

Pratima P. Kamat, Ph. D., Professor and Head (up to 09.10.2012) - Indo-Portuguese History and Maritime Studies, Gender Studies.

N. Shyam Bhat, Ph. D., Professor and Head (from 10.10.2012) - History of Modern India, History of South Kanara, Indo-Portuguese History.

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

Parag D. Parobo, M. A., Assistant Professor - History of Goa, Portuguese Colonialism, Intellectual History, Maritime History.

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

Major Thrust Areas of Research and Achievements:

Indo-Portuguese History, Maritime Studies, Indian History and History of Goa.

Ongoing Projects/completed during June 2012-May 2013:

P. D. Parobo, Dayanand Bandodkar for Goa, 10 May 2011-2013, D. B. Bandodkar and Sons Ltd., 2 lakhs.

Seminars/Conferences/Workshops, etc organized:

- Co-organised the XVII Local History Seminar (GOA) 'Sources for the Study of Goan History', 15-16 March 2013, jointly organized by Directorate of Archives and Archaeology, Government of Goa and Goa University.

Research Publications:

a. National/International Journals:

- **N. Rao**, 'Multiplicity of labour relationships in costal Karnataka'. *Workers of the World: International Journal of Strikes and Conflicts* 1(3): 90-91, 2013, International.

Number of Ph. D.s Awarded: 02

Papers presented in Seminars/Conferences/Workshops, etc.:

- **N. Shyam Bhat**, XVII Local History Seminar (GOA) 'Sources for the Study of Goan History', Directorate of Archives and Archeology. Government of Goa and Department of History, Goa University, Directorate of Archives and Archeology. Government of Goa, 15-16 March 2013, 'British Records as Corroboratory Sources in Writing History of Goa'.

- **N. Rao**, International Conference, 'India, the Portuguese and Indian Ocean Societies, India International Centre, New Delhi, 11-13 February 2013, 'Regimes of Politics and trade: The nature of Portuguese interaction with coastal Karnataka'.
 - **P. D. Porobo**, 22nd European Conference 'South Asian Studies', ISCTE-Lisbon University Institute, Lisbon, 25-28 July, 2012, 'In search of Self: Identity as Resistance in Goa'.
 - **P. D. Porobo**, National Seminar 'Education for Social Change', Xavier Centre of Historical Research, Goa and Nirmala Institute of Education, Goa, Xavier Centre of Historical Research and Thomas Stephen's Konkani Kendra, Alto-Porvorim, Goa., 18-19 January 2013, 'Schools for the Subaltern: The Political Economy of Goa's Education, 1961-1973'.
 - **P. D. Porobo**, National Seminar 'Western India in Transition (From 17th to mid-20th Centuries)', Department of History and Chatrapati Shahu Maharaj Centre for Studies of Maratha History, Department of History, Shivaji University, Kolhapur, 15-16 February 2013, 'The Politics of Caste in Colonial Goa in late nineteenth and early twentieth Centuries'.
 - **S. S. Risbud**, Seminar 'Heritage the positive legacy of History', History Forum, Department of History, Dhempe College of Arts and Science, Miramar, Goa, in collaboration with the Department of Art and Culture, Government of Goa, Goa Science Centre, Miramar, 27-28 August 2012, 'Text as heritage: Memory, memoir, archives and Goa's liberation'.
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Department of Political Science

Faculty:

Rahul Tripathi, Ph. D., Assistant Professor - International Political Economy, South Asia.

Prakash Desai, Ph. D., Assistant Professor - Political Theory, Democratic Politics.

Alaknanda Shringare, Ph. D., Assistant Professor - Party Politics, Governance.

Visiting Scholars:

Robert Keohane, Princeton University, International Political Economy: Past Present and Future, 7 January 2013.

Major Thrust Areas of Research and Achievements:

International Political economy, Electoral Participation and Decentralization. The department also consolidated its linkages with government agencies and academic institutions such as the Election Commission of India, College of Naval Warfare, I.N.S Mandovi and Directorate of Panchayats.

Ongoing Projects/Completed during June 2012 – May 2013:

- **Shringare**, Popular Responsiveness to Development Policies/ Programmes in Goa, 1 March 2010 to 31 July 2012, ICSSR, Rs. 2. 96 Lakhs.

Sponsored Consultancy Work Undertaken:

- **R. Tripathi**, Endline Survey of KABBP of Voters in Goa, Office of Chief Electoral office Goa, 2 months, Rs.0.55 Lakhs.

Seminars Organised:

- ‘Fifty Years of Panchayati Raj in Goa: Prospect and Retrospects’, 18-19 February 2013, Directorate of Panchayats, Government of Goa.

Research Publications:

a. National/International Journals:

- **P. Desai**, Intellectual Ideals and Practice of Swami Vivekananda: Their Relevance and necessity, *Review of Politics* 21(1): 45-51, 2013, National.

b. Articles in Books/Proceedings:

- **R. Tripathi**, Politics, Parties and New Media Technology, pp. 508-524, Party System in India: Emerging Trajectories Ed. Ajay K Mehra, Lancer Publisher, Atlanata and New Delhi, March 2013.
- **M. Narvenkar**, Maritime Domain Awareness and a Concept of ‘Security Net of India, pp. 318 – 330, Maritime Security and Piracy: Global Issues, Challenges and Solutions’, Eds. Bimal N. Patel and Hitesh Thakkar, Eastern Book company, 2012.

- **M. Narvenkar**, *Maritime Terrorism: The New Threat to Indian Security*, pp. 140, *Globalisation, Fundamentalism and Terrorism: Issues in South India*, Ed. K.M.Sajad Ibrahim, Abhijeet Publication, 2012
- **R. Tripathi, M. Narvenkar**, *Securing the Neighbourhood: A Sub- regional Approach to India's Security*, pp. 96-112, *India's National Security: Concerns and Strategies*, Ed. Mohanan B. Pillai, New Century Publication, 2013.

Placement Details: 04

Papers presented in Seminars/Conferences/Workshops, etc.

- **R. Tripathi**, 'Borders and Boundaries in International Relations: Barriers, Buffers, Bridges, Breaches and Bazaars', Indian Institute of Advance Studies, Shimla, 10-11 October 2012, 'Revisiting Borders amidst the 'Neoliberal Crisis': A Case of India and the Neighbourhood'.
- **R. Tripathi**, 'Governance, Democracy and Political Parties', Department of Political Science, School of Social Sciences, University of Hyderabad and School of Humanities and Social Sciences, Deakin University, Hyderabad, 1-3 December 2012, 'Political Economy of New Media and Its impact on Indian Politics'.
- **R.Tripathi**, 'The Dawning of the Asian Century: Emerging Challenges before Theory and Practice of IR in India', Institute for Research on Indian and International Studies, New Delhi, 10-12 December 2012, 'Mapping International Political Economy in India'.
- **R. Tripathi**, 'Human Migration in South Asia: Patterns, Developments and Challenges', Parvatibai Chowgule College of Arts and Science, Margao, 22-23 February 2013, 'Borderless South Asia: Between Political Hope and Economic Reality'.
- **R. Tripathi**, 'Federalism, Foreign Policy and Border States', Sikkim Central University, Gangtok, 22-23 March 2013, 'From Margins to the Mainstream: Bringing the 'Subregional' back in India's Foreign Policy'.
- **R. Tripathi**, 'Peace, Development in South Asia: India's Role since Independence', Mangalore University, Mangalore, 26 April 2013, 'Whither Regionalism in South Asia?'.
- **R. Tripathi**, 'The North South Gap: Politics, Development and Governance', University of Kerala, Trivandram, 13-14 May 2013, 'Relocating South-South Cooperation in Global Political Economy'.
- **P. Desai**, 'Constructing and Deconstructing India: Political Thought and Spirituality in the Ideas of Swami Vivekananda', St. Xavier College, Kolkata, 12 October 2012, 'Intellectualism and Practical Spirit of Swami Vivekananda: Their relevance and necessity in today's world'.
- **P. Desai**, 'Development of Scheduled caste and Scheduled Tribe', National Institute of Rural Development, Hyderabad, 9-11 January 2013, 'Development of Scheduled caste and Scheduled Tribes: State of legal and religious or reformative effort'.
- **P. Desai**, 'Combating Corruption in India: The Role of Civil Society', C. S. Bebbalagi College, Ramdurg, Karnataka, 12-13 April 2013, 'Civic Resistance against Corruption in India: Debate on its recent experiment'.
- **A. Shringare**, '2012 World Congress of Political Science', Madrid, 8-12 July 2012, 'Development and Governance Concerns in India'.

- **A. Shringare**, 'Governance, Democracy and Political Parties', Department of Political Science, School of Social Sciences University of Hyderabad and School of Humanities and Social Sciences Deakin University, Hyderabad, 1-3 December 2012, 'Party Politics and Democratic Governance in India'.
 - **A. Shringare**, 'Ideology, Values and Society', Department of Philosophy, Goa University, 25-26 June 2012, 'Changing Ideology of Development and its Impact on Indian Society'.
 - **A. Shringare**, 'Containing the menace of Corruption: Need for Civil Society Engagement', Department of Political Science, AVK College, Davangere Karnataka, 9 March 2013, 'Corruption: The Need for Civil Society Engagement'.
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Centre for Latin American Studies

Faculty

Aparajita Gangopadhyay, Ph. D., Associate Professor and Director I/c - Latin American Political Economy and International Relations

Dattesh D. Parulekar, M. A., Assistant Professor - International Organisation.

Visiting Scholars:

- **Amb. Deepak Bhojwani**, Public Diplomacy Division of the Ministry of External Affairs, Govt. of India, 'India's Relations with Latin America: Retrospect and Prospects', 19 October 2012.
- **Ms. Anne Grimes**, Director of the American Center, Mumbai, US Presidential Elections 2012, 12 October 2012.
- **Prof. Robert Keohane**, Woodrow Wilson School, Princeton University, USA, International Political Economy: Past, Present and Future, 7 January 2013.
- **Mr. Maroof Raza**, Well-known Journalist, Indo-Pak Relations, 24 August 2012.
- **Ms. Orna Sagiv**, Consul-General of Israel, Mumbai, India-Israel Relations @ 20: Retrospect and Prospects, 22 August 2012.

Major Thrust Areas of Research and Achievements:

Survey of Latin American History, Government and Politics of Latin America, Political Economy of Latin America, Sociology of Latin America.

Sponsored Consultancy Work undertaken:

- **Gangopadhyay**, A National Consultation on Latin America and the Caribbean, Indian Council of World Affairs, New Delhi, July 2012.

Seminars/Conferences/Workshops, etc. organized:

- 'Understanding Latin America', 25 March, 2013, UGC Area Studies Programme.
- One day Workshop 'Understanding Latin America and the Caribbean', 25 March 2013, Centre for Latin American Studies, Goa University.

Research Publications:

a. National/International Journals:

- **A. Gangopadhyay**, 'India's Foreign Policy in the 21st Century: Continuity and Change', TEKA: Commission of Political Science and International Affairs, Lublin, Poland, VII: 117-129, 2012.

b. Articles in Books/Proceedings:

- A. Gangopadhyay, 'The Haitian Challenge to Region Security: Predicaments of a Failed State?', pp. 305-323, *Eds. Priti Singh and M. Raymond Izarali*, 'The Contemporary Caribbean: Issues and Challenges', Shipra Publications, Delhi, 2013.

- **D. D. Parulekar**, 'Indo-Brazilian Compact in the 21st Century: When Relationship Turns into Partnership', Emerging India as a Growing Player: Growing Ties and Challenges, Atlantic Publishers, New Delhi, 2012.

Placement details: 01

Awards/Honours Conferred:

- **Yugank Naik**, a student was sanctioned funding for the publication book entitled 'Vechik Antarashtriy Chalchitra: Niyal Ani Samiksha', Selected by Directorate Official Language, Government of Goa.

Number of Radio talks/TV interviews/Popular articles: 01

Paper presented in Seminars/Conferences/Workshops, etc.:

- **A. Gangopadhyay**, International Seminar 'Indo-Portuguese History- XIV', CHAM (Lisbon), Fundação Calouste Gulbenkian, Instituto Camões, Fundação Oriente, Embassy of Portugal, Embassy of Brazil, ICHR, ICCR, ICSSR, INSA, DST, Indian Council of World Affairs, Jawaharlal Nehru University and Delhi University, New Delhi, 11-13 February 2013, 'India-Brazil Relations: Bilateralism, Regionalism and Beyond'.
 - **A. Gangopadhyay**, 'BRICS: Synergies and Complementarities', Centre for South African and Brazilian Studies, Aligarh Muslim University, Aligarh, 12-13 February 2013, 'Whither India-Brazil Relations? BRICS and Beyond'.
 - **A. Gangopadhyay**, 'II International Conference on Politics, Rights and Ethics', State University of Rio de Janeiro, Brazil, 21-23 May 2013, 'Women in Conflict in South Asia: Some Observations'.
 - **D. D. Parulekar**, 'Twenty-First Century as the Asian Century: Role of India and China', Manipal Centre for Asian Studies, Manipal University, 26-27 May 2012, 'Role of India and China in the Emerging Global Power Structure'.
 - **D. D. Parulekar**, 'II International Conference on Politics, Rights and Ethics', State University of Rio de Janeiro, Brazil, 21-23 May 2013, 'The Maoist Insurgency as a Threat to Human Security: The Indian Experience'.
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Centre for Women's Studies

Faculty:

Shaila Desouza, Ph.D., Assistant Professor (Incharge) - Gender Studies, Empowerment, Health Violence & Development.

Major Thrust Areas of Research and Achievements:

The Centre for Women's Studies was awarded a grant of Rs. 33, 27,740/- p.a. from the UGC under its XIIth Plan Scheme for Development of Women's Studies in Universities with a mandate to form a Department of Women's Studies at Goa University.

Seminars/Conferences/Workshops organized:

- 'Gender Sensitization Workshop for Goa Police', 11 February 2013, Goa University.

Research Publications:

a. National/International Journals:

- **S. Desouza**, The Strength of Collective Processes: An Outcome Analysis of Women's Collectives in India, *Indian Journal of Gender Studies* 19:373-392, 2012, National, (ISSN 09715215 I F 0.059)
- **S. Desouza, P. Mukhopadhyay**, Economic Growth and Women's Empowerment: Evaluating two lead sectors in Goa: Tourism and Mining, *Social Change and Development* IX: 64-85, 2012. (ISSN 0975-4016), National.
- **S. Desouza**, Tourism, Nutrition and Women's Health in Goa, *Review of Development and Change* XVII (1):75-94, 2012 (ISSN 0972-266) National.
- **S. Desouza, P. Mukhopadhyay**, Tourism and Mining in Goa, *IAWS Newsletter*, 2013, National.

Awards/Honours Conferred:

- **S. Desouza**, Member of the Executive Committee, Indian Association for Women's Studies, 2011, Southern Regional Coordinator and Secretary IAWS Archives.

Papers presented in Seminars/Conferences/Workshops etc.:

- **S. Desouza**, National Seminar 'Knowing the Social World: Challenges and Responses', Indian Institute of Advanced Study, Shimla, 13-15 March 2013, 'Fielding One's Own: Prospects and Dilemmas in Researching Women's Collective Organizing from Within'.
- **S. Desouza**, UGC National Seminar 'Human Rights for Women', Korambayji Ahamed Haji Memorial Unity Women's College, Manjeri, Kerala, 6-8 February 2013, 'Human Rights and the Role of the Academic Community'.
- **S. Desouza**, National Seminar 'Women Empowerment: Changing Perspectives in Changing Times', St Xaviers College, Mapusa, Goa, 24-25 August 2012, 'Women work-home'.

2.3: Faculty of Natural Sciences

2.3.0 General information - Departments and Degrees:

Department of Chemistry	(M. Sc., Ph. D.)
Department of Mathematics	(M. Sc., Ph. D.)
Department of Computer Sc & Tech	(M. C. A., Ph. D.)
Department of Physics	(M. Sc., Physics, Electronics, Ph. D.)
Department of Electronics	(M. Sc., Electronics, Ph. D.)
Department of Earth Science	(M. Sc., 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)
Dr. J. B. Fernandes	Member (Ex-Officio)
Dr. A. V. Salker	Member (Ex-Officio)
Dr. B. R. Srinivasan	Member (Ex-Officio)
Prof. V. P. Kamat	Member (Ex-Officio)
Dr. S. G. Tilve	Member (Ex-Officio)
Dr. A. G. Chachadi	Member (Ex-Officio)
Dr. Mahender Kotha	Member (Ex-Officio)
Dr. G. M. Naik	Member (Ex-Officio)
Dr. J. A. E. Desa	Member (Ex-Officio)
Dr. R. B. Tangsali	Member (Ex-Officio)
Dr. P. R. Rao	Member (Ex-Officio)
Dr. R. N. Shirsat	Member (Ex-Officio)
Dr. V. V. Kamat	Member (Ex-Officio)
Dr. R. V. Pai	Member (Ex-Officio)
Dr. Jivan S. Parab	Member (Ex-Officio)
Dr. A. N. Mohapatra	Member (Ex-Officio)

Department of Chemistry

Faculty:

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

J. B. Fernandes, Ph. D., Professor - Catalysis and Electrochemistry.

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

V. P. Kamat, Ph. D., Professor (on lien) - Organic and Medicinal Chemistry.

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

R. N. Sirsat, Ph. D., Associate Professor – Computational/Theoretical Chemistry.

V. S. Nadkarni, Ph. D., Associate Professor – Synthetic Organic and Polymer Chemistry.

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

S. N. Dhuri, Ph. D., Assistant Professor - Coordination Chemistry and homogenous Catalysis.

S. V. Girkar, M. Sc., Assistant Professor – Organic Chemistry.

Sonia Parsekar, Ph. D., Assistant Professor (Contract basis), Organic Chemistry.

Priyanka Bidaye, Ph. D., Assistant Professor (Contract basis), Physical Chemistry.

Bhanudas Naik, Ph. D., Assistant Professor (Contract basis), Physical Chemistry.

Visiting Scholars:

- **Amit Vernekar**, Research Scholar, IISc, Bangalore, 'Nanomaterials based enzyme mimicking'.
- **Pradnyesh Satardekar**, Research Scholar, University of Trento, Italy, 'Sintering of electrolytes and electrodes on metal substrate for metal supported solid oxide fuel cells (MS-SOFC)'.
- **Dr. T. S. Basu Baul**, Associate Professor, Department of Chemistry, North-Eastern Hill University, NEHU Permanent Campus, Umsting, Shillong, 'Synthesis, structure, reactivity and Biological properties of Organotin compounds'.
- **Dr. Girish Mahajan**, Senior Scientist, Piramal: Life Sciences, Mumbai, 'Drug Discovery pharmaceutical prespective'.
- **Prof. Goverdhan Mehta**, National Research Professor, Central University of Hyderabad, 'Interaction with the faculty members and Students'.
- **Dr. K. Vijayamohanan**, Director, Central Electrochemical Research Institute, Karaikudi, 'Graphene – Quantum Dots and Applications'.
- **Prof. Pierre H. Dixneuf**, Centre of catalysis and Green chemistry-OMC, Institut Sciences Chimiques de Rennes, Université de Rennes, France, 'Ruthenium Catalysts for Synthesis and Sustainable development' (Activation of Alkynes, Alkene metathesis and C-H bond functionalization)'.

Major Thrust Areas of Research and Achievements:

Synthesis of nano material based active catalysts for carbon dioxide detoxification and metal organic type semiconductors for photo degradation of azo dyes, Investigations on metal ion absorption on hydrous manganese oxides, Coordination polymers of alkaline earth/alkali metals using carboxylates motifs, Development of a convenient method for organic synthesis through Domino Witting Diels-Alder reaction, Synthesis of new monomers and poly(sulfite-co-carbonate) polymers and successfully tested them as solid state nuclear track detectors, Designed improved synthetic strategies to obtain nano size titania, Synthesis and characterization of metal complexes with multidendate ligands, Homogenous catalysis, and synthesis and characterization of nanosize Mn doped Ni-Zn ferrites.

Infrastructure: DTA/TGA, Infrared spectrophotometer, UV-Visible spectrophotometer, HPLC, Carbolite furnace, Combiflash, Gas chromatograph, LCRQ meter, CHNS analyser, Microwave synthesizer, Cyclic voltameter, NMR (400 MHz) spectrometer.

Ongoing projects/Completed during June 2012 – May 2013:

- **A. V. Salker**, 'Nanocatalysts for detoxification of pollutant gases', 2011-2014, UGC, Rs. 6.1 Lakhs.
- **A. V. Salker**, 'Catalytic redox reactions of hydrocarbons, carbon monoxide and nitric oxide over nano based catalysts', 2011-2014, UGC, Rs. 7.38 Lakhs.
- **S. G.Tilve**, 'Designing synthesis & applications of organocatalysts', 2010-2013, DST, Rs.19.9 Lakhs.
- **S. G.Tilve**, 'Synthetic studies in selected marine natural products', 1 April 2012 to 31 March 2012, CSIR, Rs. 22.1 Lakhs.
- **S. N. Dhuri**, 'Bio-inspired investigation and kinetic studies of metal ion-promoted electron transfer and hydride transfer reactions involving high valent ruthenium-oxo catalysts', 2010-2013, DST, Rs. 19.9 Lakhs.
- **S. N. Dhuri**, 'Non-heme ligands and their transition metal complexes: Synthesis, characterization and catalytic oxidations', 2010-2013, UGC, Rs. 1.55 Lakhs.
- **V. M. S. Verenkar**, 'Synthesis of mixed metal oxides', 2011-2013, UGC, Rs. 1.1Lakhs.
- **V. S. Nadkarni**, 'Development of solid state Nuclear Track Detector for the charged particle dosimetry', 2010-2012, BARC, Rs. 24.95 Lakhs.
- The Department of Chemistry also coordinates DST interdisciplinary nanomission program 2010-13 (269 lakhs).

Seminars/Conferences/Workshops, etc organized:

- The 7th Annual Intercollegiate T.Y.BSc. Chemistry Symposium on 'Fascinating World of Chemical Sciences', 9 March 2013, Goa University in association with Chemistry Department Faculty and alumni association.
- Meeting of Alumni of 1987-89 M.Sc. Chemistry batch and Chemistry Faculty members, 26 January 2013, Department of Chemistry, in association with Chemistry Department Faculty and alumni association.

Research Publications:

a. National/International Journals:

- **R. K. Kunkalekar, A. V. Salker**, Low temperature CO oxidation over nano-sized Cu-Pd doped MnO₂ catalysts, *Reaction Kinetics, Mechanisms and Catalysis* 108: 173-182, 2013. <http://link.springer.com/article/10.1007%2Fs11144-012-0492-7#page-1>.
- **P. A. Pavaskar, S. S. Patil, I. Furtado, A. V. Salker**, Synthesis and antimicrobial activity on manganese tetra (n-carboxylacrylic) aminophthalocyanine, *Biointerphase Research in Applied Chemistry* 2: 374-370 2012. http://biointerfaceresearch.com/wpcontent/uploads/downloads/2012/08/47.BRIAC_Pavaskar.pdf.
- **P. A. Pavaskar, A.V. Salker**, Selective catalytic oxidation of naphthol to lawsone on copper phthalocyanine *Current Catalysis* 1: 186-190, (2012).
- **S. R. Naik, A.V. Salker, S. M. Yusuf, S. S. Meena**, Influence of Co²⁺ distribution and spin-orbit coupling on the resultant magnetic properties of spinel cobalt ferrite nanocrystals, *Journal of Alloys and Compounds* 566: 54-61, 2013.
- **S. D. Gokakakar, A. V. Salker**, Thermal studies of metalloporphyrins with metals in different oxidation states. *Journal of Thermal Analysis and Calorimetry* 112: 11-15, 2013. <http://link.springer.com/article/10.1007%2Fs10973-012-2860-y#page-1>.
- **R. K. Kunkalekar, A. V. Salker**, Low temperature CO oxidation over nano-sized Cu-Pd doped MnO₂ catalysts, *Reaction Kinetics, Mechanisms and Catalysis* 108: 173-182, 2013. <http://link.springer.com/article/10.1007%2Fs11144-012-0492-7>
- **P. A. Pavaskar, S. S. Patil, I. Furtado, A. V. Salker**, Synthesis and evaluation of antibacterial activity of water-soluble copper, nickel and zinc tetra (n-carboxylacrylic) aminophthalocyanines, *Medicinal Chemistry Research* 22 4300-4307, 2013. <http://link.springer.com/article/10.1007%2Fs00044-012-0427-x#page-1>.
- **R. K. Kunkalekar, M. M. Naik, S. K. Dubey, A. V. Salker**, Antibacterial activity of silver-doped manganese dioxide nanoparticles on multidrug-resistant bacteria, *Journal of Chemical Technology and Biotechnology* 88: 873-877, 2013. <http://onlinelibrary.wiley.com/doi/10.1002/jctb.3915/abstract>.
- **U. Subramanian, S. J. Naik, R. B. Tangsali, A. V. Salker**, Upconversion luminescence of cerium doped CoWO₄ nanomaterials. *Journal of Luminescence* 134: 464-468, 2013. <http://www.sciencedirect.com/science/article/pii/S0022231312004541>.
- **B. R. Srinivasan, S.Y. Shetgaonkar, P. Raghavaiah**, Soft synthesis of a metal organic framework based on a tribarium unit, *Indian Journal of Chemistry* 51A: 1064-1072, 2012. [http://nopr.niscair.res.in/bitstream/123456789/14532/4/IJCA%2051A\(8\)%201064-1072.pdf](http://nopr.niscair.res.in/bitstream/123456789/14532/4/IJCA%2051A(8)%201064-1072.pdf).
- **B. R. Srinivasan, P. Raghavaiah, R. N. Shirsat, J. C. J. M. D. S. Menezes, S. P. Kamat**, Single crystal X-ray analysis of the isomeric 2-(2, 4, 4-trimethyl-3, 4-dihydro-2H-Benzo[h]chromen-2-yl)-1-naphthyl acetate and 3-(2, 4, 4-trimethyl-3, 4-dihydro-2H-Benzo[g]chromen-2-yl)-2-naphthyl acetate, *Journal of Structural Chemistry* 53: 943-947, 2012. <http://link.springer.com/article/10.1134%2FS0022476612050174#page-1>
- **S. Natarajan, B. R. Srinivasan, J. K. Sundar, K. Ravikumar, R. V. Krishnakumar, J. Suresh**, Synthesis and structural characterization of a calcium coordination polymer

based on a μ_3 -bridging tetradentate binding mode of glycine, *Journal of Chemical Sciences* 124:781-790, 2012.

<http://www.ias.ac.in/chemsci/Pdf-Jul2012/781.pdf>.

- **K. Moovendaran, B. R. Srinivasan, J. K. Sundar, S. A. M. B. Dhas, S. Natarajan**, Structural, vibrational and thermal studies of a new nonlinear optical material: L-Asparagine- L-Tartaric acid, *Spectrochimica Acta* A92: 388-391, 2012.
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- **B. R. Srinivasan, S. N. Dhuri, A.R. Naik, C. Näther, W. Bensch**, Synthesis and structural characterization of two new non-centrosymmetric tetrasulfidometalates *Zeitschrift fur Anorganische und Allgemeine Chemie* 639: 512-516, 2013.
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- **B. R. Srinivasan, S. S. Khandolkar, R. N. Jyai, K. Ravikumar, B. Sridhar, S. Natarajan**, Structural and spectral characterization of a new non-centrosymmetric organic thiosulfate, *Spectrochimica Acta* A102: 235-241, 2013.
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- **B. R. Srinivasan, K. R. Priolkar**, Comment on 'Synthesis, growth, structural, spectroscopic, crystalline perfection, second harmonic generation (SHG) and thermal studies of 2-aminopyridinium picrate (2APP): A new nonlinear optical material' *Solid State Sci.* 14:773-776, 2012, *Solid State Sciences* 20: 15-16, 2013.
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- **B. R. Srinivasan**, Can zinc (II) ions be doped into the crystal structure of L-proline cadmium chloride monohydrate? *Spectrochimica Acta* A116:635-638, 2013.
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- **U. B. Gawas, V. M. S. Verenkar, S. C. Mojumdar**, Nano-crystalline $Mn_{0.3}Ni_{0.3}Zn_{0.4}Fe_2O_4$ obtained by novel fumarato-hydrazinate precursor method. *Journal of Thermal Analysis and Calorimetry* 108:865-870, 2012.
<http://link.springer.com/article/10.1007%2Fs10973-012-2387-2>.
- **L. R. Gonsalves, V. M. S. Verenkar**, Synthesis and characterization of nanosize nickel-doped cobalt ferrite obtained by precursor combustion method. *Journal of Thermal Analysis and Calorimetry* 108: 877-880, 2012.
<http://link.springer.com/article/10.1007%2Fs10973-012-2337-z>
- **L. R. Gonsalves, V. M. S. Verenkar**, Synthesis and thermal studies of the cobalt zinc ferrous fumarato-hydrazinate: A precursor to obtain nanosize ferrites. *Journal of Thermal Analysis and Calorimetry* 108:871-875, 2012.
- **L. R. Gonsalves, S. C. Mojumdar, V. M. S. Verenkar**, Synthesis and characterization of ultrafine spinel ferrite obtained by precursor combustion technique. *Journal of Thermal Analysis and Calorimetry* 108:859-863, 2012.
<http://link.springer.com/article/10.1007%2Fs10973-012-2392-5#page-1>.
- **U. B. Gawas, V. M. S. Verenkar, S. R. Barman, S. S. Meena, P. Bhatt**, Synthesis of nanosize and sintered $Mn_{0.3}Ni_{0.3}Zn_{0.4}Fe_2O_4$ ferrite and their structural and dielectric studies. *Journal of Alloys and Compounds* 555: 225-231, 2013.
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- **U. B. Gawas, V. M. S. Verenkar**, Synthesis, thermo-analytical and IR spectral studies of hydrazinated mixed metal carboxylates: A single source precursor to nanosize mixed metal oxides. *Thermochimica Acta* 556:41-46, 2013.
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- **D. P. Kamat, S. G. Tilve, V. P. Kamat**, Solvent-free synthesis of 4-aryl-3, 4-dihydrobenzopyran-2-ones via [3+3] cyclocoupling of Phenols with cinnamic acid catalyzed by molecular iodine. *Tetrahedron Letters* 53: 4469-4472, 2012.
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- **M. S. Majik, S.G. Tilve**, Pyrrolizine Alkaloids Pyrrolams A-D: A Survey of Synthetic Efforts, Biological Activity, and Studies on Their Stability. *Synthesis* 44: 2673-2681, 2012. <http://drs.nio.org/drs/handle/2264/4145>.
- **P. T. Parvatkar, A. K. Ajay, M. K. Bhat, P. S. Parameswaran, S. G. Tilve**, Iodine catalyzed one-pot synthesis of chloro-substituted linear and angular indoloquinolines and *in vitro* ant proliferative activity study of different/Indoloquinolines *Med. Chem. Res.* 22: 88-93, 2013.
<http://link.springer.com/content/pdf/10.1007/s00044-012-0015-0.pdf>.
- **C. Bhat, S. G. Tilve**, Tandem Approaches for the Synthesis of Functionalised Pyrrolidones: Efficient Routes towards Allokainic Acid and Kainic Acid. *Tetrahedron Letters* 54: 245-248, 2013.
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- **S. T. Bugde, M. S. Majik, V. K. Mandrekar, V. S. Nadkarni, S. G. Tilve**, A Novel Polycarbonate Copolymer as Organocatalyst for Aldol and Michael Reaction. *Synthetic Communications* 43: 2536-2545, 2013.
<http://www.tandfonline.com/doi/abs/10.1080/00397911.2012.719257#.UoYCtnAbDJM>.
- **P. T. Parvatkar, P. S. Torne, S. G. Tilve**, Recent Developments of Wittig Reaction in Organic Synthesis Through Tandem or sequential Processes. *Current Organic Synthesis* 10: 288-317, 2013.
<http://benthamscience.com/contents.php?in=108376&m=April&y=2013>.
- **M. S. Majik, D. Naik, C. Bhat, S. G. Tilve, S. Tilve, L. e D'Souza**, Synthesis of (R)-Norbogaine and its Potential as Quorum Sensing Inhibitor Against *Pseudomonas Aeruginosa*. *Bioorganic and Medicinal Chemistry Letters* 23: 2353-2356, 2013.
<http://www.sciencedirect.com/science/article/pii/S0960894X13002278>.
- **P. S. Volvoikar, P. T. Parvatkar, S. G. Tilve**, Tandem Reductive Cyclization-Dehydration Approach for the Synthesis of Cryptolepine Hydroiodide and its Analogues. *European Journal of Organic Chemistry* 2172-2178, 2013.
<http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201201586/abstract>.
- **H. K. Kadam and S. G. Tilve**, Synthesis of 6H-Isoindolo[2,1-a]indol-6-ones via Wittig reaction and Tandem Reductive Cyclization-Lactamization approach. *European Journal of Organic Chemistry* 4280-4284, 2013.
- **C. Bhat and S. G. Tilve**, Henry-Nef reaction: A Practical and Versatile Chiral Pool Route to 2-Substituted Pyrrolidine and Piperidine Alkaloids. *Tetrahedron* 69: 6129-6143, 2013.
<http://www.sciencedirect.com/science/article/pii/S0040402013007904>.

- **A. Vernekar, S. Patil, C. Bhat, S. G. Tilve**, Magnetically Recoverable Catalytic Co-Co₂B Nanocomposites for the Chemoselective Reduction of Aromatic Nitro Compounds. *RSC Advances* 3: 13243-13250, 2013.
<http://pubs.rsc.org/en/content/articlelanding/2013/ra/c3ra41090k/unauth#!divAbstract>.
- **B. R. Srinivasan, Z. Tylczyński, V. S. Nadkarni**, 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* 35:1616-1618, 2013.
<http://www.sciencedirect.com/science/article/pii/S0925346713001833>.
- **S. Martins, J. B. Fernandes**, A simple method to prepare high surface area activated carbon from carboxyl methyl cellulose by low temperature physical activation, *J. Thermal Analysis and Calorimetry* 112:1007-1011, 2013.

Number of Ph. D.s Awarded: 06

Papers presented in Seminars/Conferences/Workshops, etc.:

- **B. R. Srinivasan, S. Khandolkar**, National Conference 'Current Research in Chemical Sciences (CRCS-2013)', 22-23 January 2013, Shivaji University, Kolhapur, 'Synthesis and spectroscopic characterization of two novel lithium heptamolybdates'.
- **S. G. Gawas, V. M. S. Verenkar**, Proceedings of DAE-BRNS, 4th Interdisciplinary symposium on Materials Chemistry, 11-15 December 2012. BARC, Mumbai, 'Dielectric and Magnetic properties of Co substituted Nickel Zinc Ferrite nanoparticles'.
- **S. G. Gawas, V. M. S. Verenkar**, National conference on 'Current Research in Chemical Sciences', 22-23 January 2013, Department of Chemistry, Shivaji University, Kolhapur, 'Synthesis and characterization of nanocrystalline Co-Ni-Zn Ferrite by novel Hydrazine fumarate precursor method'.
- **S. G. Gawas, V. M. S. Verenkar**, 23rd Canadian Thermal Analysis Society's Annual Workshop and Exhibition, 7-8 May 2013, University of Ontario Institute of Technology Oshawa, Ontario, Canada, 'Synthesis and Characterization of Nickel Cobalt Zinc Ferrous hydrazine Fumarate Precursor to nanocrystalline Ni_{0.4}Co_{0.2}Zn_{0.4}Fe₂O₄'.
- **S. N. Dhuri, D. Narulkar**, National Conference on 'Current Research in Chemical Sciences (CRCS-2013)', 22-23 January 2013, Shivaji University, Kolhapur, 'Hexacoordinated Nickel (II) complexes derived from Nitrogen donor ligands: Synthesis and characterization'.
- **J. B. Fernandes**, UQ-India, 'Clean Energy Workshop' 7-8 November 2013, University of Queensland, Brisbane, Australia 'Role of some metal oxides/zeolite catalysts in Energy Research' (Invited Talk).

Department of Mathematics

Faculty:

A. J. Jayanthan, Ph. D., Associate Professor & Head - Knot Theory, Topology.

Y. S. Valaulikar, Ph. D., Associate Professor - Differential 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 – Analysis.

Major Thrust Areas of Research and Achievements:

Topology, Knot theory, Differential Equations, Operator Theory, Mathematical Physics, Lie Algebra, Financial Analysis, Numer Theory and Combinations.

Department of Computer Science and Technology

Faculty:

P. R. Rao, Ph. D., Professor & Head - Theoretical Computer Science, Data Mining, Data Warehousing, Information Systems Security.

V. V. Kamat, Ph. D., Associate Professor - Computer Graphics and CAD, Software Engineering.

J. D. Pawar, Ph. D., Associate Professor - Data Mining, Natural Language Processing.

Y. Pinto, M.C.A., Associate Professor - Data Base Management Systems, Operating Systems, Computer Science Education.

R. Wagh, M.C.A., Associate Professor - Software Architecture, Object Oriented Technology.

R. Karmali, M.C.A., Assistant Professor - Computer Networking, Natural Language Processing.

S. Baskar, M. Sc., Associate Professor - Artificial Intelligence, Compiler, Energy aware Computing & Embedded Systems.

Major Thrust Areas of Research and Achievements:

Data Mining, Data warehousing, Theoretical Computer Science, Software Architecture, Embedded Systems, CAD & E-Learning and DBMS.

Infrastructure: 30 Zenith PCs, 1 Laser jet printer, 2TB Seagate portable, 1 Ball Tablet, 1 DG-GS- 24 port, 2 ITC podiums, 20 student chairs, 1 24 Port switch.

Visiting Scholars:

- **Dr. S. Minocha**, Open University, UK, Evaluating effective use of emerging ICT technologies, 13 July 2012.
- **Prof. Walter Bender**, Sugar lab, MIT USA, OLPC-One laptop per child, 24 August 2012.
- **Pravin Sabnis**, Unlearning Unlimed, Face the interview, 5 September 2012.
- **Anay Kamat**, PresentSoft Tech, Agile software engineering, 7 September 2012.
- **Dr. S. Padmanabhuni**, Infosys labs, Software engineering issues for cloud onboarding, 1 October 2012.
- **Prof. A. P. Kudchadker**, Professor Emeritus, IIT Bombay, Paradigm Shift in Higher Education, 26 October 2012.
- **Dr. Pralhad Deshpande**, IBM Research, Bangalore, Plug-n-Learn: Flipping the Classroom, 4 January 2013.
- **Prof. Sameer Verma**, San Francisco State University, USA, Case Studies One per child (OLPC), 15 January 2013.
- **Prof. S.P. Mudur**, Concordia University, Canada, Web usage mining, 21 January 2013.
- **Dr. D. Djuric**, University of Belgrade, Serbia, Functional Programming with closure, 18 February 2013.

- **Prof. Margaret Burnett**, Oregon State University. Oregon, USA, Gender issues in computing, 3 April 2012.
- **Amey Hegde**, Corporate Behavioral Trainer, Creating Positivity Within, 6 April, 2012.

Seminars/Conferences/Workshops, etc organized:

- ‘Trends in Computing Education’, 22 February 2013, UGC.
- ‘Development of Raspberry Pi based systems’ by Inventron Robotics, 9-10 March 2013.
- University level workshop ‘to build awareness on e-Governance’, 15 March 2013 NeGD, DeitY Government of India.

Papers presented in Seminars/Conferences/Workshops etc.:

- **Venkatesh Kamat**, Technology for Education T4E, IIIT Hyderabad, Hyderabad, 18-20 July 2012, ‘Agile Manifesto in Higher Education’.
- **Dimple V. Paul, Shankar B. Naik, J. D. Pawar**, Technology for Education T4E, IIIT Hyderabad, 18-20 July 2012, ‘Use of an Evolutionary Approach for Question Paper Template Generation’.
- **E. Vaz, S. Walawalikar, M. Sardesai, J. D. Pawar**, South and Southeast Asian Natural Language Processing, IIT Bombay, Mumbai, 8 December 2012, ‘BIS Annotation Standards With Reference to Konkani Language’.

Research Publications:

a. National/International Journals:

- **Y. Pinto**, The efficacy of homogeneous groups in enhancing individual learning, *Journal of Education and Practice* 3(3): 25-38, International, IF: 7.15, 2012, ISSN 2222-1735.

b. Articles in Books:

- **J. Adhikari, P. R. Rao**, Identifying Calendar based periodic Patterns, Emerging Paradigms in Machine Learning, pp. 329-357, *Eds. S. Ramanna, L. C. Jain and R. J. Howlett*, Springer-Verlag Berlin Heidelberg, 2013.

Awards/Honors Conferred:

- **R. Wagh**, awarded CSI Goa Chapter Patron award by Computer Society of India at the National Convention of CSI held at Kolkata, December 2012.

Department of Physics

Faculty:

J. A. E. Desa, Ph. D., Professor and Head - Experimental Condensed Matter Physics: Structures of Glasses, Gels and Porous Media by neutron diffraction and SANS.

R. B. Tangsali, Ph. D., Professor - Theoretical Solid state Physics, Experimental Solid state Physics, Nanomagnetic materials: Preparation, Characterisation, Transport and Magnetic properties, Radiation effects on magnetic nanomaterials.

U. Subramanian, Ph. D., Associate Professor - Experimental Solid State Physics: Optical and Electrical Properties of Materials.

R. V. Pai, Ph. D., Associate Professor - Theoretical Condensed Matter Physics: Cold Atoms and Molecules.

K. R. Priolkar, Ph. D., Associate Professor - Experimental Solid State Physics: X-ray Spectroscopy (XAS, XAFS).

Major Thrust Areas of Research and Achievements:

Preparation, Characterization and study of Nanomagnetic Functional Materials, Rare earth doped ferrite materials, Effects of gamma radiation on various properties of nanoparticle magnetic materials and electrical and optical properties of luminescent and functional nano materials; Local and nano-structures of PVA doped Gels, Porous Media and Glasses by X-ray and Neutron Diffraction, Small Angle Neutron Scattering and Scanning Electron Microscopy. Optical, Thermal and Rheological properties of these materials among other macroscopic methods; Preparation, Characterization and study of optical and electrical properties of luminescent and functional nano materials; Study of Bose-Hubbard models in the presence of harmonic trap and Synthetic orbital magnetic field; Use of X-ray absorption spectroscopy (XAS) and X-ray magnetic circular dichroism (XMCD) studies on ferromagnetic shape memory alloys (FSMA); Functional materials of the types ZnO-TiO₂ nano composites useful as lead-free thick film sensors, MgGa₂O₄:CR³⁺ useful as long lasting luminescence biomarker and Ga_{1-x}Sn_xCm₃ type Antiperovskite for magneto-caloric applications.

Ongoing Projects/Completed during June 2012- May 2013:

- **J. A. E. Desa**, 'Structural Studies of Gels by Light Scattering and SANS', December 2009, 3 years UGC-DAE-CSR Rs. 1, 05 Lakhs, Completed.
- **J. A. E. Desa**, 'Studies of Porous Materials by SANS', December 2009, 3 years, UGC-DAE-CSR, Rs. 1, 05 Lakhs, Completed.
- **J. A. E. Desa**, 'Structural and Optical Properties of Rare-earth Doped Borate Glasses', November 2011, 4 years, UGC-DAE-CSR, Rs. 1.40 Lakhs.

- **R. V. Pai**, 'A parallel density-matrix renormalization group algorithm and its application to strongly correlated quantum systems'. 9 February 2012, 2 years, Goa University under Innovative Research Activities -XI Year Plan.
- **K. R. Priolkar**, 'Magnetic and Transport Properties of Iron Chalcogenides', 6 September 2010, DST, Government of India, Rs. 36.9 Lakhs.
- **K. R. Priolkar**, 'Study of Magneto-elastic coupling in Antiperovskite Materials', 1 April 2011, BRNS, Department of Atomic Energy, Rs. 22.12 Lakhs.
- **K. R. Priolkar**, 'Mechanism of Long Lasting Luminescence Compounds', 1 July 2011, Indo French Council for Promotion of Advanced Research, New Delhi, Rs. 84.15 Lakhs.
- **K. R. Priolkar**, 'Study of Fe based Ferromagnetic Shape Memory Alloys', 1 October 2011, CSIR, New Delhi, Rs. 13.4 Lakhs.

Projects under nano initiative, funded by DST India (2010-2013), total funding for group of 12 projects Rs. 2.60 crores.

- **R. B. Tangsali**, Optimization of Nitrilotriacetate Precursor method for obtaining Nanoparticle Mn-Zn ferrite materials and development of high performance microstructure based magnetic (metamaterials) for electromagnetic applications.
- **R. B. Tangsali** and **A. V. Salkar**, Development of nanosize heterogeneous catalysts for detoxification of toxic gases (Interdepartmental Collaborative Project).
- **R. B. Tangsali** and **I. Fernandes**, Prospecting with Haloarchaea and Halophilic microbes for production of nanomaterials (Interdepartmental Collaborative Project).
- **R. B. Tangsali** and **S. K. Shyama**, Genotoxicity Investigations of magnetic nanoparticles (MNPs) in mammalian cells (Interdepartmental Collaborative Project).

Research Publications:

a. National/International Journals:

- **R. R. Dessai, J. A. E. Desa, D. Sen, S. Mazumder**, 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: 125-129, International, 2013.
- **R. R. Dessai, J. A. E. Desa, D. Sen, S. Mazumder**, Nano-Porous Structure of a Porous Ceramics from Rice Husk", *Transactions - Indian Ceramic Society* 71(4):198-203, International, 2013.
- **R. R. Dessai, V. K. Sharma, S. A. Prabhudesai, S. Mitra, J. A. E. Desa, R. Mukhopadhyay**, Diffusion of Water in Bentonite Clay, *Journal of Physical Society of Japan* 82:SA008, International, 2013.
- **P. P. Naik, R. B. Tangsali, B. Sonaye, S. Sugur**, Radiation stimulated permanent alterations in Structural and Electrical properties of core-shell type Nanoparticle Mn-Zn Ferrite, *Journal of Nano Research*, International, 24:194-202, 2013.
- **Uma Subramanian, S. J. Naik, R. B. Tangsali, A. V. Salker**, Upconversion luminescence of Cerium doped CoWO₄ nanomaterials. *Journal of Luminescence*, Elsevier Publishing, International, 13: 464-468, 2013. IF- 2.144.

- **R. V. Pai, J. M. Kurdestany, K. Sheshadri, R. Pandit**, Bose-Hubbard Models in Confining Potentials: An Inhomogeneous Mean-Field Theory, *Physical Review B* 85:214524, International, 2012.
- **B. Danu, B. Kumar, R. V. Pai**, DMRG studies on linear-exchange quantum spin models in one dimension, *Eurphysics Letters* 100: 27003, International, 2012.
- **A. Dhar, T. Mishra, M. Maji, R. V. Pai, S. Mukerjee, A. Paramekanti**, Chiral Mott insulator with staggered loop currents in the fully frustrated Bose Hubbard model, *Physical Review B* 87:174501, International, 2013.
- **T. Mishra, R. V. Pai, S. Mukerjee, A. Paramekanti**, Phases and phase transitions of hard-core bosons on a triangular ladder, *Physical Review B* 87: 174504, International, 2013.
- **S. Jagtap, K. R. Priolkar**, Evaluation of ZnO nanoparticles and study of ZnO-TiO₂ composites for leadfree humidity sensors. *Sensors and Actuators*, International, B 183:411, 2013.
- **K. R. Priolkar, P. A. Bhoje, D. N. Lobo, S. W. D'Souza, S. R. Barman, A. Chakraborty, S. Emura**, Antiferromagnetic Exchange Interactions in Ni₂Mn_{1.4}In_{0.6} ferromagnetic Heusler alloys. *Physical Review B* 87:144412, International, 2013.
- **B. R. Srinivasan, K. R. Priolkar**, Comment on 'Synthesis, growth, structural, spectroscopic, crystalline perfection, second harmonic generation (SHG) and thermal studies of 2-aminopyridinium picrate (2APP): A new nonlinear optical material'. [*Solid State Sci.* 14 (2012) 773-776], *Solid State Science* 20:15, International, 2013.
- **A. Dashora, H. S. Mund, J. Sahariya, K. R. Priolkar, N. Lobo, M. Itou, Y. Sakurai, B. L. Ahuja**, Magnetic Compton scattering study of Ni₂Mn_{1.4}Sn_{0.6} shape memory alloy. *Advanced Materials Research* 665:189, International, 2013.
- **Lecointre, A. Bessire, K. R. Priolkar, D. Gourier, G. Wallez, B. Viana**, Role of Mn²⁺ doping in red long-lasting phosphorescence of CaMgSi₂O₆:Mn²⁺ diopside. *Materials Research Bulletin*, 48: 1898, International, 2013.

b. Articles in Books/Proceedings:

- **Manoj M. Kothawale, R. B. Tangsali, G. K. Naik, J. S. Budkuley, Sher Singh Meena, P. Bhatt**, Sintering effect on structural and magnetic properties of Ni_{0.6}Zn_{0.4}Fe₂O₄ ferrite. *AIP Conference Proceedings* 1512:1160-1161, 2013.
- **P. P. Naik, R. B. Tangsali, B. Sonaye, S. Sugur**, Enrichment of Magnetic Alignment Stimulated by Radiation in Core-shell Type Nanoparticle Mn-Zn Ferrite. *AIP Conference Proceedings* 1512: 354, 2013.

Number of Ph. D awarded: 01

Awards/Honours Conferred:

- **K. R. Priolkar**, selected as Member of National Academy of Sciences of India, Allahabad.
- **K. R. Priolkar**, felicitated by Indian Academy of Sciences, Bangalore on completion of 50 Refresher Courses in Experimental Physics for his services in developing low cost Physics experiments and helping in conducting these refresher courses.

Papers presented in Seminars/Conferences/Workshops etc.:

- **J. A. E. Desa**, National Symposium 'Materials and Processing' DAE B.A.R.C., Mumbai, 10-12 October 2012, 'Nano-porous structure of a porous ceramic from rice husk'.
- **J. A. E. Desa**, International Symposium 'Neutron Scattering' DAE B.A.R.C., Mumbai, 19-20 August 2011, 'SANS study of a micellar solution confined in a bentonite clay'.
- **R. B. Tangsali, P. P. Naik**, National Conference 'NANOINDIA 2013' organized by CSIR-National Institute for Interdisciplinary Science and Technology and Department of Science and Technology, 19-20 February 2013, Trivandrum. 'Sustained conductivity augmentation due to structural adjustments in core shell type $Mn_xZn_{1-x}Fe_2O_4$ nanoparticles provoked by gamma radiation'.
- **R. B. Tangsali, P. P. Naik**, 57th DAE SSP Symposium, 3-7 December 2012, IIT Bombay, 'Enrichment of magnetic alignment stimulated by γ -Radiation in core-shell type nanoparticle Mn-Zn ferrite'.
- **R. B. Tangsali**, 'Nanomaterials Synthesis and Applications (NSNSA 2013)', 4-6 March 2013, P. G. College, Chhindwara, 'Radiation mediated property augmentation in core-shell type magnetic nanoparticles'.
- **R. B. Tangsali**, National Conference 'Smart Materials and Technologies for Emerging Electronics (NC-SMTEE-2013)', 8-9 March 2013, Mangalore Institute of Technology and Engineering, Moodabidri, Mangalore, 'Sustained property augmentation in core-shell type Mn-Zn ferrite nanoparticles stimulated by gamma radiation'.
- **R. B. Tangsali**, National Conference 'Nano the Essentials', 5-6 April 2013, J. T. College Gadag, 'Resourcefulness of nanoparticle magnetic mixed metal oxides production and novel properties'.
- **R. B. Tangsali, P. P. Naik**, International Conference 'NANOCON 2012 - Nano Technology - Innovative Materials, Processes, Products and Applications', 18-19 October 2012, Bharati Vidyapeeth University, Pune, 'Radiation stimulated permanent alterations in structural and electrical properties of core-shell type nanoparticle Mn-Zn Ferrite'.
- **R. B. Tangsali, J. Joseph, S. M. Gurav**, International Conference 'Materials Science and Technology (ICMST-2012)' St. Thomas College Pala, Kerala, 10-14 June 2012, 'Synthesis, characterization and transport properties of $CoxZn_{1-x}Fe_2O_4$ nanoparticles'.
- **R. B. Tangsali, M. M. Kothawale**, International Conference 'NANOCON 2012 - Nano Technology - Innovative Materials, Processes, Products and Applications', 18-19 October 2012, Bharati Vidyapeeth University, Pune, 'Lattice contraction, magnetization enhancement, resonance frequency variation and microstructure evolution on sintering nanoparticle $Ni_{0.55}Zn_{0.45}$ ferrite'.
- **R. B. Tangsali, M. M. Kothawale**, 57th DAE SSP Symposium, 3-7 December 2012, IIT Bombay, 'Sintering effect on structural and magnetic properties of $Ni_{0.6}Zn_{0.4}Fe_2O_4$ ferrite'.
- **R. V. Pai**, International Conference 'Quantum Information and Quantum Computing' IISc, Bangalore, 7-11 January 2013, 'Phases, transitions, and boundary conditions in a model of interacting bosons'.
- **K. R. Priolkar**, International Symposium 'Non-ergodic phenomena in martensites' Universitat Duisburg Essen, Duisburg, Germany, 28-30 January 2013, 'Role of Local disorder in martensitic and magnetic interactions in Ni-Mn based FSMA'.

- **K. R. Priolkar**, Theme meeting on EXAFS Spectroscopy, Raja Ramanna Centre for Advance Technology Indore, 27-28 September 2012. 'EXAFS as a tool for understanding luminescence'.
 - **K. R. Priolkar**, National Seminar 'Physics of Materials' Shivaji University, Kolhapur, 3-4 January 2013, 'Understanding long lasting phosphorescence through EXAFS'.
 - **K. R. Priolkar, E. Dias**, DAE 'Solid State Physics Symposium 2012', Bhabha Atomic Research Centre Mumbai, December 2012, 'Contrasting Routes of Magneto-Structural Transformation in Mn₃XC Type Antiperovskites'.
 - **K. R. Priolkar, N. Basavaraju**, DAE 'Solid State Physics Symposium 2012', Bhabha Atomic Research Centre Mumbai, December 2012, 'Red persistent luminescence in MgGa₂O₄:Cr³⁺; new phosphor for *in vivo* imaging'.
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Department of Electronics

Faculty:

G. M. Naik, Ph. D., Professor and Head - Laser and Fiber Optics Systems, Sensors, Instrumentation.

R. S. Gad, Ph. D., Associate Professor - Biomedical Electronics and VLSI.

J. S. Parab, Ph. D., Assistant Professor - Embedded System and DSP.

Major Thrust Areas of Research and Achievements:

Biomedical Electronics, Agro-Electronics, DSP & VLSI, Biometric signal Processing. Faculty have been awarded with 'INSA', New Delhi visiting Fellowship 2012-13 to visit centre for Imaging Research in Science and Engineering (IRIS), IISc Bangalore.

Visiting Scholars:

- **Dr. Vithal Tilvi**, Post-Doctoral Fellow, Department of Astrophysics, Texas A and M University, USA, 'Some aspects of Galaxies and Dark Matter', 16 August 2012.
- **Dr. John Kiran Anthony**, Post-Doctoral Fellow, Center for Imaging Research in Science and Engineering' IPC, IISc, Bangalore, 'Ultrafast Pulse Production with Raman Scattering', 7 May 2013.
- **Dr. Gopal Dutt Sharma**, Head Department of Public Administration, GPG college Rohru, 'Communication Skills', 18 April 2013.

Infrastructure:

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

Sponsored Research Projects Sanctioned between June 2012 to May 2013:

- **R. S. Gad, G. M. Naik**, 'Multimodal Bio-Metric System Design with Embedded System Technologies', 23 July 2012, 3 years, UGC, 12.428 Lakhs.
- **R. S. Gad, G. M. Naik**, 'Design of Automatic Blood Pressure Meter Based on Oscillometric and Auscultation Principals', 24 January 2013, 3 years, DST, Rs. 23.88 Lakhs.
- **J. S. Parab**, 'Embedded technology for portable multiparameter soil testing instrument', April 2013, 2 years, UGC, Rs. 1.9 Lakhs.

Ongoing Projects/completed during June 2012 to May 2013:

- **G. M. Naik, R. S. Gad**, Design of hyper spectral smart sensors using soft-core processor and IP cores, Mar.2010, 3 years, UGC, Rs. 9.33 Lakhs.
- **R. S. Gad, G. M. Naik**, Non-invasive Glucometer, March 2010, 3 years, ICMR, Rs. 22.00 Lakhs.

Research Publications:

a. National/International Journals:

- **V. R. Gad, R. S. Gad, G. M. Naik**, Implementation of Gigabit Ethernet Standard using FPGA', *International Journal of Mobile Network Communications and Telematics (IJMNCT)*, International, 2(4), August 2012.
- **V. R. Gad, R. S. Gad, G. M. Naik**, Performance analysis of Gigabit Ethernet Standard for various Physical Media Using Tripple Speed Ethernet IP core on FPGA, *Advance in Computer Science, Engineering and Applications*, AISC Springer-Verlag Berlin Heidelberg, 167: 81-89, May 2012.

Awards/Honours Conferred:

- Faculty have been awarded with 'Indian National Science Academy (INSA), New Delhi – Visiting Fellowship 2012-2013' to visit Center for Imaging Research in Science and Engineering (IRIS) Indian Institute of Science, Bangalore.

Papers presented in Seminars/Conferences/Workshops, etc.:

- **S. R. Ghanti, G. M. Naik**, VLSI and Embedded System, VSI Goa Chapter, Goa, 23 March 2013, 'Enhancing the Performance of Server by using FPGA based SYN flood attack prevention'.
- **G. M. Naik, A. Fernandes, I. Fernandes, S. Ferenades, N. Naik**, VLSI and Embedded System, VSI Goa Chapter, Goa, 23 March 2013, 'Detection of Internal Bruising of Fruits Using Hyper-Spectral Imaging and Artificial Neural Networks'.
- **R. S. Gad, K. D'souza, W. D'souza, L. Naik, H.Vaidya, S. Sawant, R. Naik, S. Netravalkar**, VLSI and Embedded System, VSI Goa Chapter, Goa, 23 March 2013, 'RTOS based Remote Controlled Aerial Vehicle for Critical Surveillance'.
- **S. R. Vermekar, J. S. Parab, G. M. Naik**, VLSI and Embedded System, VSI Goa Chapter, Goa, 23 March 2013, 'Urea Analysis in Soil using FPGA based on Multivariate Algorithm'.
- **J. S. Parab, D. Wood, M.Tamboskar, S. Marathe**, VLSI and Embedded System, VSI Goa Chapter, 23 March 2013, 'Wearable Assistive Haptic Intuition System'.
- **I. Nazareth, R. S. Gad, G. M. Naik**, VLSI and Embedded System, VSI Goa Chapter, 23 March 2013, 'Application of VLSI for Non Invasive Blood Cholesterol Monitoring'.

University Science Instrumentation Centre (USIC)

Faculty:

R. V. Pai, Ph. D., Associate Professor (Department of Physics) and Co-ordinator – (Theoretical Condensed Matter Physics).

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

Infrastructure: Scanning Electron Microscope (SEM).

Department of Earth Sciences

Faculty:

K. Mahender, Ph. D., Professor and Head - Sedimentology, Petroleum Geology, GIS and Remote Sensing.

A. G. Chachadi, Ph. D., Professor – Groundwater Geology, Environmental Geology and Exploration Geophysics.

T. A. Vishwanath, Ph. D., Associate Professor - Metamorphic Petrology, Geochemistry and Igneous Petrology.

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

Visiting Scholars:

- **Mr. Sunil. I Trivedi**, Institute of Reservoir Studies, ONGC, Ahmedabad, Petroleum Reservoir Simulation and Modeling, 18-20 December 2012.

Infrastructure: Procured three Microscopes.

Sponsored Research Projects sanctioned between June 2012 and May 2013:

- **K. Mahender**, Dolomitization of Proterozoic Carbonates of Kaladgi Basin, 12 March 2103, 3 years, UGC-MRP, Rs. 12.50 Lakhs.

Sponsored Consultancy:

- **A. G. Chachadi**, Comprehensive hydrogeological study for systematic and sustainable open cast iron ore mining at mines located in Velguem-Surla, Sigao and Cudne, Goa, M/S V.M. Salgaocar and Bros Pvt Ltd, Goa, 1 year, Rs. 4.5 Lakhs.

Seminars/Conferences/Workshops, etc. organized:

- Interactive programme 'Water conservation and Rainwater Harvesting', Korgao village, Goa, 11 August 2012, UGC.
- Interactive programme 'Water conservation and Rainwater Harvesting', Mashen village, Goa, 15 September 2012, UGC.
- Interactive programme 'Water conservation and Rainwater Harvesting', Azmane High school, Neura village, Goa, 13 February 2013, Extra Mural, Goa University.
- Interactive programme 'Water conservation and Rainwater Harvesting', Fr. Agnel High School, Verna village, Goa, 16 March 2013, Extra Mural, Goa University.

Research Publications:

a. National/International Journals:

- **M. Manoj, K. Mahender**, Provenance and temporal variability of ice rafted debris in the Indian sector of the Southern Ocean during the last 22,000 years, *Journal of Earth System Science* 122(2): 491–501, April 2013.

- **K. Mahender, P. D. Kunte**, Land Cover Change in Goa- An Integrated Rs-GIS Approach, *International Journal of Geoinformatics* 9(2):37-45, May 2013.
- **A. G. Chachadi**, Impact Analyses of Industrial and Mining Activities on Groundwater Regime-Case Studies in Goa, *International Journal of Earth Sciences and Engineering (IJEE)*, 5(6):1584-1589, 2012, ISSN 0974-5904.
- **S. Rekha, A. Bhattacharya, T.A. Viswanath**, Microporosity linked fluid focusing and monazite instability in greenschist facies para-conglomerates, western India, *Geochimica et Cosmochimica Acta* 105: 187–205, 2013, IF 4.414.
- **S. Rekha, T.A. Viswanath, A. Bhattacharya, N. Prabhakara**, 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: 316– 336, 2013, IF 4.918.

b. Articles in Books/Proceedings:

- **S. Malcon, K. Mahender, P. D. Kunte**, Geomorphometry and micro-watershedbasin delineation of Salcete Taluka, Goa – A study of Micro-level geodatabase creation using RS & GIS, *pp. 335-342*, Proceedings International Conference ICPCS12, Dr. F. Surve, N. Wadia College, Excel India, Publishers, New Delhi, December 2012.
- **P. D. Kunte, M. Murali, K. Mahender**, High-resolution Gulf Water Skin Temperature Estimation using TIR\ASTER, *pp. 330-334*, Proceedings International Conference ICPCS12, Dr. F. Surve, N. Wadia College, Excel India, Publishers, New Delhi, December 2012.

Number of Ph.Ds awarded: 01

Placement details: 05

Papers presented in Seminars/Conferences/Workshops, etc.

- **K. Mahender**, National Symposium ‘Space Technology for Food and Environmental Security’ and Annual Conventions of Indian Society of Remote Sensing and Indian Society of Geomatics, Indian Agricultural Research Institute And ISRS, Delhi Chapter, New Delhi, 5-7 December 2012, ‘Decadal change detection study of Goa: An integrated RS – GIS Approach’.
- **K. Mahender**, International Conference ‘Perspectives of Computer Confluence with Sciences’, Wadia College, Pune, 10-12 December 2012, ‘Geomorphometry and micro-watershedbasin delineation of Salcete Taluka, Goa – A study of Micro-level geodatabase creation using RS & GIS’.
- **K. Mahender**, International Conference ‘Interdisciplinary Applications of Remote Sensing and Geographic Information Systems (ICIARSGIS -2013)’, K. J. Somaiya College of Science and Commerce, Mumbai, 27-28 April 2013, ‘Applications of GIS in Geosciences: New Challenges’.
- **K. Mahender**, Seminar ‘Drilling Technology’, Institute of Drilling technology, ONGC & Petrotech, Delhi, Dehradun, 6-7 May 2013, ‘Geological Problems in Oil Well Drilling’.
- **K. Mahender**, Brainstorming session on Geoheritage, Andhra University, 30-31 May 2013, ‘Geoconservation and Geoheritage to Sustainable Development: Needs & Challenges – Indian Context’.

- **A. G. Chachadi, A. Mandrekar**, International Conference 'Sustainable Water Resource Development and Management', Shivaji University, Kolhapur, Maharashtra, 20-21 December 2012, 'Evaluation of water quality in an intense iron ore mining watershed in Goa'.
 - **A. G. Chachadi, W. S. E. Dsilva**, International Conference 'Sustainable Water Resource Development and Management', Shivaji University, Kolhapur, Maharashtra, 20-21 December 2012, 'Assessment of anthropogenic impacts on groundwater quality in coastal Goa'.
 - **A. G. Chachadi, M. Ibrampurkar**, '5th International Groundwater Conference', Maulana Azad College and Geoforum, Aurangabad, Maharashtra, 18-21 December 2012, 'A new approach to delineate groundwater potential zones in unconfined lateritic aquifers - A case study in Goa, India'.
 - **A. A. Viegas**, Attended International Workshop 'Magmatic Ore Deposits PGE, Ni-Cu sulphate', Bangalore, Geological Society and Geological Survey of India, Bangalore, 1-8 December 2012.
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2.4 Faculty of Life Sciences & Environment

2.4.0 General information - Departments and Degrees:

Department of Botany	(M.Sc., Ph.D.)
Department of Microbiology	(M.Sc., Ph.D.)
Department of Marine Sciences	(M.Sc., Ph.D.)
Department of Zoology	(M.Sc., M.Phil, Ph.D.)
Department of Biotechnology	(M.Sc., 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. D. J. Bhat	Member	(Ex-Officio)
Prof. M. K. Janarthanam	Member	(Ex-Officio)
Prof. B. F. Rodrigues	Member	(Ex-Officio)
Prof. A. B. Shanbhag	Member	(Ex-Officio)
Prof. G. N. Nayak	Member	(Ex-Officio)
Prof. U. M. X. Sangodkar	Member	(Ex-Officio)
Prof. S. K. Shyama	Member	
Prof. (Ms) Irene Furtado	Member	
Dr. C. U. Rivonkar	Member	
Dr. U. D. Muraleedharan	Member	
Dr. Savita Kerkar	Member	

Department of Botany

Faculty:

P. K. Sharma, Ph. D., Professor - Plant Physiology.

M. K. Janarthanam, Ph. D., Professor & Head - Plant Systematics (Angiosperms).

B. F. Rodrigues, Ph. D., Professor - Cytogenetics and Plant Breeding, Reclamation Research, Mycorrhizae Research, Legume Research, Medicinal Plants Research.

Vijaya U. Kerkar, Ph. D., Associate Professor – Algae and Pteridophyta.

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

Nandkumar M. Kamat, Ph. D., Assistant Professor - Biochemistry, Microbiology, Mycology, Fungal Chemistry and Biotechnology; Environmental Education and Science Popularisation.

Visiting Scholars:

- **Dr. Kanchi N. Gandhi**, Senior Nomenclatural Registrar, Harvard University, 'Morality, Sustainability, and Creativity'.
- **Prof. K N Guruprasad**, School of Life Sciences, Devi Ahilya University, Indore 'Solar UV-B and its impact on growth and yield of crop plants'.

Major Thrust Areas of Research and Achievements:

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; Biodiversity, bioprospecting and biotechnology of soil actinobacteria, yeasts and basidiomycetes.

Steptolygidin, a peptide antibiotic from *Streptomyces* sp. was characterised. Amylolytic yeasts from tubers were obtained and screened. Waterbodies from mining areas in north Goa were sampled for the first time to isolate a diversity of aquatic yeasts and a promising yeast strain was used in bioflocculation and bioclarification of turbid mining wastewater at 45l benchtop scale. Siliceous phytoliths and sideromagnetoliths were reported alongwith auriferous material from ash samples of plants growing on the north Goa mining dumps. A metal tolerant soil strain of *Cladosporium* was shown to cause bioreduction of Chloroauric acid. Endosymbiotic fungus cultures were isolated from *Nostoc* cyanobacterial macrospherules and the correlation of omphalaceous cynobasidiolichen was examined. Students of Oenology produced fruit wines on small scale. New strains of fungi and yeasts were added to Goa University Fungus Culture Collection. An online catalogue of active cultures in the collection was uploaded on the University website.

Several taxonomic decisions on endemic species including *Strobilanthes warreensis*, *S. ciliatus*, *Phyllanthus talbotii* and *Pseudoglochidion* were confirmed. Species Distribution Models were used to predict spread of three common obnoxious weeds.

Infrastructure: Proteomic system, Real-time PCR, Fluorescence Detector for HPLC, and Students Research Microscopes (Binocular/Trinocular with Digital Camera).

Sponsored Research Projects sanctioned between June 2012 and May 2013:

- **C. U. Rivonker, V. U. Kerkar**, 'HAB monitoring (Mangalore to Goa)', 5 years, Ministry of Earth Sciences, Rs. 54 Lakhs.
- **S. Krishnan, M. K. Janarthanam**, 'Large scale screening for high Garcinol and hydroxycitric acid, *in vitro* culture and molecular characterization of *Garcinia* species from the Western Ghats of India', 3 years, Council of Scientific and Industrial Research (CSIR), New Delhi, Rs. 13.98 Lakhs.

Ongoing projects/Completed during June 2012 – May 2013:

- **M. K. Janarthanam, S. Krishnan**, Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools, 5 Years, Department of Biotechnology (DBT), New Delhi, Rs. 35.71 Lakhs.
- **M. K. Janarthanam, S. Krishnan**, '*In-situ* conservation of critically endangered monotypic tree genus (*Pseudoglochidion*) and a shrub species *Phyllanthus talbotii* of Western Ghats using conventional and biotechnological tools', 5 years, DBT, New Delhi, Rs. 60.45 Lakhs.
- **S. Krishnan**, 'Grain Quality Evaluation, Chalkiness Formation and Molecular Genetic Diversity Studies of Rice Varieties of Goa', 3 years, DSTE, Goa, Rs. 5.5 Lakhs.
- **N. M. Kamat**, 'Creating wealth from mining waste: Towards ecofriendly and sustainable management of Goa's Iron and Manganese ore reject dumps', 8 years, M/s R.N.S. Bandekar & Bros., Vasco da Gama, Rs.15.76 Lakhs.

Sponsored Consultancy Work:

- **N. M. Kamat**, 'Preparation of the report of task force on Food processing for Government of Goa', Directorate of Industries, trade and commerce, Government of Goa, Rs. 1.27 Lakhs.

Seminars/Conferences/Workshops, etc. organized:

- UGC-SAP Seminar 'Recent advances in Biodiversity, Bioprospecting and Plant Biotechnology', 24 January 2013.
- Summer training program for under graduate Botany students on the theme 'Microbial Biodiversity, Biotaxonomy, Biotechnology and Bioinformatics', 14-25 May 2013, GUFCC (self financed).

Research Publications:

a. National/International Journals:

- **K. Datta, N. Baisakh, M. Ganguly, S. Krishnan, K. Y. Shinozaki, S. K. Datta**, Over expression of Arabidopsis and Rice stress genes inducible transcription factor confers drought and salinity tolerance to rice, *Plant Biotechnology Journal* 10(5): 579-586, 2012, International, IF 5.442.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1467-652.2012.00688.x/pdf>.
- **S. A. Dessai, B. F. Rodrigues**, Diversity studies on arbuscular mycorrhizal fungi in vegetable crop plants of Goa, India. *Plant Pathology and Quarantine*, 2(1):87-101, 2012, International, doi 0.5943/ppq/2/2/1.

- **J. D. Vaingankar, B. F. Rodrigues**, Screening for efficient AM (Arbuscular Mycorrhizal) fungal bioinoculants for two commercially important ornamental flowering plant species of Asteraceae, *Biological Agriculture Horticulture*, iFirst Article 1-10, International.
<http://dx.doi.org/10.1080/01448765.2012.727541>, IF 0.317.
- **G. V. Parab, S. Krishnan**, Rapid *in vitro* mass multiplication of orchids *Aerides maculosa* Lindl. and *Rhynchostylis retusa* (L.) Bl. from immature seeds, *Indian Journal of Biotechnology* 11: 288-294, 2012, National, IF 0.55.
- **S. Velho-Pereira, N. M. Kamat**. A novel baiting technique for diversity assessment of soil actinobacteria in a laboratory microcosm. *Journal of Bioscience and Biotechnology* 1(2):2231-34, 2013 International, (ISSN 2231-0402).
<http://www.researchgate.net/publication/236852948>.
- **S. Velho-Pereira, N. M. Kamat**, Actinobacteriological research in India, *Indian Journal of Experimental Biology* 51: 573-596, 2013, National, IF 1.2.
<http://nopr.niscair.res.in/handle/123456789/20481>.

b. Books/Monographs published:

- **N. M. Kamat**, Sunaprinta revisited: Political Ecology and Economy of Gold deposits in Goa, *Atharva*, 7(11): 28, November 2012.
- **N. M. Kamat**, The neglected natural resources of Goa, *Atharva*, 8(3): 48, March 2013.

c. Articles in Books/Proceedings:

- **K. P. Radhika, B. F. Rodrigues**, Arbuscular mycorrhizal (AM) fungi associated in wild medicinal plants exhibit variation in phosphorus concentration during growth developmental stages, pp. 205-218. *In: Microbes: Diversity and Biotechnology*. Eds. S. C. Sati and M. Belwal, Daya Publishing House, New Delhi, India. ISBN: 978-81-7035-794-0, March 2012.
- **K. P. Radhika, J. D'souza, B. F. Rodrigues**, Arbuscular Mycorrhizae in aquatic plants, India. pp.265-274, *In: Mycorrhiza: Occurrence in natural and restored environments*, Ed. Marcela Pagano, Nova Science, Inc, USA, April 2012.
- **K. P. Radhika, V. Mohan, B. F. Rodrigues**, Growth and biomass studies in ectomycorrhizal fungus-*Pisolithus albus* (Cook & Masee) Priest, pp. 456-462, *In: Microbial Diversity – Exploration and Bioprospecting*. Eds. S. Ram Reddy, M. A. Singara Charya and S. Girisham, Scientific Publishers, Jodhpur India, ISBN: 978-81-7233, May 2012.
- **S. A. Dessai, B. F. Rodrigues**, Diversity of arbuscular mycorrhizal (AM) fungi in *Moringa oleifera* Lam from Goa, pp. 149-152. *In: The Proceedings of State level Seminar on Recent Innovative Trends in Plant Sciences*. Mahatma Phule A.S.C. College, Panvel, ISBN: 978-81-924995-1-2, May 2012.
- **K. P. Radhika, B. F. Rodrigues**, *In vitro* culture of Mycorrhizal (AM) fungi: An overview. pp. 13-25. *In: Plant Science for Sustainable Agriculture and Rural Development*, Eds. U. N. Bhale and V. S. Sawant, Daya Publishing House, New Delhi India. ISBN: 978-81-7035-784-1, February 2012.
- **K. M. Rodrigues, B. F. Rodrigues**, Monoxenic culture of AM fungus *Glomus clarum* using Ri T-DNA transformed roots, *In: The Proceedings of State level Seminar on Recent*

Innovative Trends in Plant Sciences. Mahatma Phule A. S. C. College, Panvel pp. 165-170. ISBN: 978-81-924995-1-2, May 2012.

Books Review

- 'Rices of Goa and their Grain Quality', book published by Goa University and authored by S. J. Bhonsle and S. Krishnan was reviewed by R. S. Rana, Member, National Biodiversity Authority and Former Director, NBPGR, New Delhi in *Rheedea* 22(1):18-19 December 2012.

Number of Ph. Ds Awarded: 03

Placement details: 05

Awards/Honours Conferred:

- **N. Kamat**, felicitated by Association of All Goa Muslim Jamaats, at Panaji, 14 October 2012.
- **S. Krishnan**, received 'Second Best Poster Award' for the paper 'Grain quality, chalkiness and molecular genetic diversity studies of rice varieties of Goa' in ARRW Golden Jubilee International Symposium 'Sustainable Rice Production and Livelihood Security: Challenges and Opportunities' Central Rice Research Institute (CRRI), Cuttack (Odisha), 1-5 March 2013.
- **S. Velho-Pereira**, Ph.D. Research scholar, awarded 'Second Prize' for oral presentation 'Application and potential of bioautography for rapid screening of tropical actinobacteria for antibiotic activity', National Seminar 'Plant Sciences' Parvatibai Chowgule College, Margao-Goa, 8 February 2013.
- **Kim Rodrigues**, Ph.D. research scholar awarded 'Second Prize' for poster presentation, National Seminar, 'Plant Sciences', Parvatibai Chowgule College, Margao-Goa, 8 February 2013.
- **Seema Dessai**, Ph.D. research scholar awarded 'Best Research Paper Award' at the Maharashtra State level Seminar 'Recent Innovative Trends in Plant Sciences' Mahatma Phule A. S. C. College, Panvel, Maharashtra, 2012.
- **Rosy Agnes Desouza**, DST Inspire Fellowship, DST, Government of India, May 2013.
- **B. F. Rodrigues**, 'Guest of Honour', International Students Programme on 'Cross Cultural Synergies' Don Bosco College, Panjim, 12 March 2012.
- **B. F. Rodrigues**, elected 'Fellow of Mycological Society of India' 2012.
- **N. M. Kamat**, elected on the general body of Goa Board for Secondary and Higher Secondary Education.
- **N. M. Kamat**, nominated on Committee on Gouly/Dhangars of Goa by Directorate of Social Welfare, Government of Goa.
- **N. M. Kamat**, appointed member of Advisory Committee on vision for 2012-14 by the General Council of Kala Academy.

No. of Radio talks/TV interviews/Popular articles:

- **N. M. Kamat** contributed 110 popular articles in English.

Papers presented in Seminars/Conferences/Workshops, etc:

- **C. R. Rodrigues, B. F. Rodrigues**, National Conference 'Plant Sciences', at Parvatibai College of Arts and Science, Goa, 7-8 February 2013, 'Growth and nutrient status of *Macaranga peltata* (Roxb.) Mull. Arg. Plants'.

- **S. A. Dessai, B. F. Rodrigues**, State Level Seminar 'Recent Innovative Trends in Plant Sciences', Mahatma Phule A. S. C. College, Panvel, Mumbai, 1 September 2012, 'Diversity of Arbuscular mycorrhizal (AM) fungi in *Moringa oleifera* Lam. from Goa'.
- **B. F. Rodrigues**, National Seminar 'Recent Advances in Agricultural Botany' Devchand College, Arjunnagar, Maharashtra, 27-28 September 2012, 'Arbuscular Mycorrhizae'.
- **J. D'Souza, B. F. Rodrigues**, National Seminar 'Current perspectives of fungi in health care and environment (KAVAASTHA) and 39th Annual Meeting of Mycological Society of India', Department of Microbiology and Biotechnology, Bangalore University, Bangalore, 13-14 March 2013. 'MSR medium devoid of sucrose promotes higher *in vitro* germination in *Glomus intraradices* Schenck & Smith'.
- **B. F. Rodrigues**, 34th Annual Conference and Symposium 'Crop Disease Management: Advances and Challenges' Department of Plant Pathology, Navasari Agricultural University, Navasari, Gujarat and Indian Society of Mycology and Plant Pathology, Udaipur, Rajasthan, 21-23 January 2013, 'Arbuscular Mycorrhizal fungi – Diversity and inoculums Production'.
- **J. D. Vaingankar, B. F. Rodrigues**, National Conference 'Plant Sciences', Botany Department, SP Chowgule College, Margao Goa, 7-8 February 2013, 'Screening for efficient AM (Arbuscular Mycorrhizal) fungal bioinoculant for *Jasminum nitidum* skan'.
- **P. Gad, N. M. Kamat**, National Conference 'Plant Sciences', Smt. Parvatibai Chowgule College of Arts and Science, Margao, Goa, 7-8 February 2013, 'Diversity of freshwater yeasts in mining areas of Goa'.
- **J. Ligi, N. M. Kamat**, National Conference 'Plant Sciences', Smt. Parvatibai Chowgule College of Arts and Science, Margao, Goa, 7-8 February 2013, 'Ecological and biological studies on *Nostoc pruniforme* spherules from lateritic plateau ecosystem of Goa'.
- **N. M. Kamat**, 'Consultative Meeting on Tourism Policy, Centre for responsible tourism', Caritas Holiday Home, Goa, 16-17 February 2013, 'Environmental protection in Tourism in Goa'.
- **S. Naik, N. M. Kamat**, National Conference 'Plant Sciences', Smt. Parvatibai Chowgule College of Arts and Science, Margao, Goa, 7-8 February 2013, 'Phyтомorphic Gold in ash samples of plants in north Goa mining belt'.
- **R. S. Pagare, S. S. Naik, S. Krishnan, M. K. Janarthanam**, International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy 'Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)', Department of Botany, Sant Gadge Baba Amravati University Amravati, Maharashtra, India, 28-30 October 2012, 'Reassessment of taxonomic position of the Genus *Pseudoglochidion* Gamble (Phyllanthaceae) using molecular tools'.
- **S. J. Bhonsle, S. Krishnan**, ARRW Golden Jubilee International Symposium 'Sustainable Rice Production and Livelihood Security: Challenges & Opportunities', Central Rice Research Institute (CRRI), Cuttack (Odisha), India, 1-5 March 2013, 'Grain quality, chalkiness and molecular genetic diversity studies of rice varieties of Goa'.
- **S. S. Naik, Ravikiran S. Pagare, S. Krishnan, M. K. Janarthanam**, International Symposium and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on 'Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)', Department of Botany, Sant Gadge Baba Amravati University Amravati, Maharashtra,

India, 28-30 October 2012, 'Systematic position of *Phyllanthus talbotii* (Phyllanthaceae), A critically endangered plant of Western Ghats, using multiple gene sequencing'.

- **S. Velho-Pereira, N. M. Kamat**, National Conference 'Plant Sciences', Smt. Parvatibai Chowgule College of Arts and Science, Margao, Goa, 7-8 February 2013, 'Application and potential of bioautography for rapid screening of tropical actinobacteria for antibiotic activity'.
 - **V. U. Kerkar**, National Seminar 'Recent trends in Life Science' R. C. Shahoo College, Kolhapur, 28-29 January 2013. 'Diversity of Green algae from the freshwater habitats from Goa'.
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Department of Microbiology

Faculty:

Santosh Kumar Dubey, Ph. D., Professor & Head (Co-ordinator, UGC sponsored Innovative M.Sc. course in Marine Microbiology) - Molecular Microbiology of fish pathogens, Genetic Engineering, Environmental Biotechnology (Metal Resistance in Bacteria), Marine Microbiology, Metagenomics, Agriculture Microbiology, Microbial Prospecting for industrially important enzymes, EPS and antimicrobials.

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

I. Furtado, Ph. D., Professor, Archaea (haloarchaea) - Extremophilic microorganisms, Ecology and sustainability, Microbial Systematics, Microbial degradation and Microbial Biofertilizers.

S. Nazareth, Ph. D., Professor - Biochemistry, Antimicrobials, Microbial degradations and metal remediation, Halophilic fungi.

S. Garg, Ph. D., Associate Professor - Industrial and Medical Microbiology, Fermentation Technology, Industrial Enzymes, Biopolymers, Biofertilisers, Ectomycorrhiza, Immunology, Bioinsecticide, Biostatistics and Biomathematics, Marine Microbiology, Bioremediation.

Temporary Faculty:

Aureen Gomes, Ph. D., Assistant Professor - Environmental Microbiology, General Microbiology and Marine Microbiology.

Major Thrust Areas of Research and Achievements:

Microbial diversity: Coastal, marine and extreme ecosystems (Ecology of Salt Pans of Goa-India vis-a-vis its impact on community structure of halophilic archaea, Pigments in Haloarchaea); Microbial conversion & remediation: of metals, organometals, organic aliphatic and aromatic pollutants; Biosorption of heavy metals using bacterial, fungal, Haloarchaeal Systems; Identification and characterization of relevant microbes; Bioprospecting for microbial enzymes including extremozymes, antimicrobial metabolites, bioplastic, exopolysaccharide, bioactive compounds, pigments, biosorbs, plant growth promoting metabolites; Molecular Microbiology of bacterial fish pathogens, Process development for enzyme, pigment and bioplastic, Microbial inoculants for applications in crop cultivation and forest restoration.

Infrastructure: Nanodrop spectrophotometer, Gel Documentation system, Thermal cycler (PCR), Evaporator, Deep Freezer (-20°C).

Visiting Scholars:

- **Prof. R. L. Deopurkar**, University of Pune, 'Problem solving approach to learn Biology', 10 February 2012.

Ongoing Projects/Completed:

- **S. Bhosle**, Anoxygenic phototrophic bacterial primary productivity and studies on the endolithic bacterial communities of marine ecosystems, 2009-2012, Ministry of Earth Sciences, New Delhi, Rs. 10.95 Lakhs.
- **I. Furtado, S. Bhosle** (group member of nano mission), Nano mission project for Goa University, March 2010, 5 years, DST, India, 2.67 Crores.

Papers presented in Seminars/Conferences/Workshops etc.:

- **S. Nazareth**, National Seminar 'Current Perspectives of fungi in Health care and environment (KAVAASTHA)', Department of Microbiology and Biotechnology, Bangalore University, 13-14 March 2013, 'A first record of black yeast *Hortaea werneckii* in brackish environment of mangroves'.
- **S. Nazareth, A. Bicholkar**, National Seminar 'Current Perspectives of fungi in Health care and environment (KAVAASTHA)', Department of Microbiology and Biotechnology, Bangalore University, 13-14 March 2013, 'Effect of heavy metals on melanin production by dematiaceous marine fungi'.
- **D. Khanolkar, S. K. Dubey**, '53rd Annual Conference of Association of Microbiologist of India (AMI)', KIIT University, Bhubaneswar, Odisha, 22-25 November 2012, 'Isolation and characterization of Tributyltin chloride resistant bacteria from estuarine environment of Goa'.
- **D. Khanolkar, S. K. Dubey**, International Exhibition and Conference 'Water Technologies, Environmental Technologies and Renewable Energy, OMICS', Bombay Exhibition Centre Mumbai, 13-14 February 2013, 'Biodegradation of tributyltin chloride by bacteria isolated from coastal niches of Goa-India'.

Research Publications:

a. National/International Journals:

- **T. De Sousa, S. Bhosle**, Isolation and characterization of a lipopeptide bioemulsifier produced by *Pseudomonas nitroreducens* TSB.MJ10 isolated from a mangrove ecosystem, *Bioresource Technology* 123:256-262, 2012, International, IF: 4.75.
- **M. M. Naik, D. Khanolkar, S. K. Dubey**, Lead resistant *Providencia alcalifaciens* strain 2EA bioprecipitators PB⁺ as lead phosphate, *Letters in Applied Microbiology* 56: 99-104, 2012, International, IF:1.62.
- **M. M. Naik, M. Mohan, Pandey, Anju, S. K. Dubey**, Biological characterization of lead – enhanced exopolysaccharide produced by a lead resistant *Enterobacter cloacae* strain P2B, *Biodegradation* 23(5): 2012, International, IF:2.173.
- **M. M. Naik, K. Shamim, S. K. Dubey**, Biological characterization of lead resistant bacteria to explore role of bacterial metallothionein in lead resistance, *Current Science* 103: 426-429, 2012, National, IF: 0.935.
- **S. Velho-Pereira, I. Furtado**, Antibacterial activity of halophilic bacterial bionts from marine invertebrates of Mandapam-India, *Indian Journal of Pharmaceutical Science*, 74(4): 331-338, 2012, National.
- **M. A. H. Gazem, S. Nazareth**, Sorption of lead and copper from an aqueous phase system by marine-derived *Aspergillus* species, *Annals of Microbiology* 63:503–511 2013, International, IF: 1.5.

- **M. Ferrao, S. Garg**, Shake flask optimization of β -carotene production in *Rhodotorula graminis* RC04, *African Journal of Biotechnology* 11(52): 11431-1437, 2012, International, IF: 0.57.
- **R. K. Kunkalekar, M. M. Naik, S. K. Dubey, A. V. Salker**, Antibacterial activity of silver doped manganese dioxide nanoparticles on multi drug resistant bacteria, *Journal of Chemical Technology and Biotechnology* 88: 873-877, 2013, International, IF: 2.504.
- **S. Patil, J. Fernandes, R. B. Tangsali, I. Furtado**, Exploitation of *Haloferax alexandrines* for biogenic synthesis of silver nano particles antagonistic to human and lower mammalian pathogens, *Journal of Cluster Science*, 25:1012-1015, May 2013, International.
- **S. Basu, S. G. Matondkar, I Furtado**, Retrieved bacteria from *Noctiluca miliaris* (green) bloom of the northeastern Arabian Sea, *Chinese Journal of Oceanology and Limnology* 31(1):10-20, 2013 International.
- **S. Basu, D. D. Deobagkar, S. G. Matondkar, I. Furtado**, 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), 934-954, 2013, International, IF:2.98.

b. Article in Books:

- **A. K. Mohanty, S. Garg, K. Dhindsa, A. H. Kumar**, Phenotypic characterization of mosquito larvicidal *Lysinibacillus* strains isolated from paddy field and mangrove vegetation, pp. 49-58, *Microbial Diversity and Its Applications*, Eds. S. B. Barbuddhe, R. Ramesh, N. P. Singh, New India Publishing Agency, January 2013.
- **P.Nayak, T.Gaonkar, A.Mohanty, A.Kumar, S.Bhosle, S. Garg**, Isolation and characterization of polyhydroxyalkanoates producing bacteria from coastal sand-dune ecosystem, pp. 75-82, *Microbial Diversity and Its Applications*, Eds. S. B. Barbuddhe, R. Ramesh, N. P. Singh, New India Publishing Agency, January 2013.

Sponsored consultancy:

- **S. Garg**, Microbial count before and after fumigation in Bom Jesus Church, Old Goa, Pest Control of India Ltd., Goa, Rs. 0.38 Lakhs.

Number of Ph. D.'s awarded: 05.

Awards/Honours Conferred:

- **S. K. Dubey**, appointed member of task force of UGC for Screening and Assessment of major research projects in Microbiology.

Department of Marine Sciences

Faculty:

G. N. Nayak, Ph. D., Professor & Head - Marine Geology, Modern Sedimentology, Sediment Geochemistry, Estuarine Sediments, Tidal/Mud Flats, Environmental Studies.

H. B. Menon, Ph. D., Professor - Physical Oceanography and Meteorology, Optical Remote Sensing, Marine and Atmospheric Optics, Radiative Transfer Modeling.

S. Upadhyay, Ph. D., Associate Professor - Marine Chemistry, Estuarine Chemistry, Aquatic Chemistry.

Vishnu M. Matta, Ph. D., Associate Professor - Environmental Pollution, Water Chemistry, Elemental Composition of Seaweeds.

C. U. Rivonker, Ph. D., Associate Professor – Marine Biodiversity, Fisheries.

A. Can, Ph. D., Assistant Professor - Physical Oceanography, Satellite Oceanography, Satellite Meteorology, Ocean Circulation, Air-sea Interaction, Indian Monsoon.

Major Thrust Areas of Research 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; Air-sea interaction and genesis of water masses; Satellite oceanography and meteorology; Air-sea interaction and genesis of water masses; Ocean circulation.

Marine Chemistry: Nutrients and trace metal distribution in estuaries; Sorptions 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 & 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.

Sponsored Research Projects sanctioned:

- **H. B. Menon**, Optical characterizations of case II waters retrieval of colour components from an optical sensor, 5 Years, INCOIS, MoE's, Rs. 61.23 Lakhs.

- **H. B. Menon**, To establish a network station at Goa University for atmosphere boundary layer measurements under the NOBLE Project of ISRO-GBP, 5 Years, ISRO Funded by Space Physics Laboratory (SPL), Rs. 86.658 Lakhs.
- **H. B. Menon**, Aerosol characterisation over west coast of India for analysing the water quality through satellite data - Aerosol Radiative Forcing (ARFI) - ISRO Geosphere Biosphere programme IGBP, 5 Years, ISRO, Funded by Space Physics Laboratory (SPL), Rs. 50 Lakhs.

Ongoing projects/Completed during June 2012 - May 2013:

- **G. N. Nayak**, High resolution paleoclimatic studies from the Bay of Bengal, 2012 – 2015, 3 Years, Multi-institutional Project coordinated by NIO, Goa. Ministry of Earth Sciences, Government of India, New Delhi, Rs.12.78 Lakhs.
- **G. N. Nayak**, Understanding depositional environments, metal concentrations and processes through the study of mudflats within Mandovi – Zuari estuarine system, Goa, 2011-2014, 3 Years, UGC, New Delhi, Rs. 6.868 Lakhs.
- **H. B. Menon**, Variability of Remote sensing reflectance and its implication to colour component analysis – A study in the estuarine and coastal waters of eastern Arabian sea, Completed in 2012, INCOIS, MoE's, Rs.73.38 Lakhs.
- **H. B. Menon**, Aerosol Radiative forcing over India (ARFI), Completed in 2012, ISRO, funded by Space Physics Lab, Rs. 87.36 Lakhs.
- **H. B. Menon, V. M. Matta**, Variability of colour components in estuarine and Coastal regions of eastern Arabian sea and its predictive potential to Naval applications, 3 Years, Naval Research Board (NRB), DRDO, Rs. 61.47 Lakhs.
- **H. B. Menon**, Analysis of assimilative capacity of Dahej/Hazira, Mahim/ Bassein creeks and coastal waters of Mangalore – study through satellite and *in-situ* observations, 2008-2012, 5 years, National Institute of Oceanography, Goa., Rs. 20 Lakhs.
- **H. B. Menon**, Validation of OCM-II derived geophysical products of inland waters of Goa and Eastern Arabian Sea, 4 Years, ISRO, SARC, Rs. 28. 99840 Lakhs.
- **V. M. Matta**, Atmospheric deposition and its influence on rain water quality and coastal waters of Arabian sea with special reference to nutrients and iron and manganese, 5 Years, Ministry of Earth Science, New Delhi, Government of India, Rs. 47.37 Lakhs.
- **V. M. Matta**, Biogeochemistry studies of the Arabian sea and the effect of river inputs from the Mandovi – Zuari system along the West coast of India (under Geotrases), 5 years, Ministry of Earth Science, New Delhi, Government of India. Rs. 64.00 Lakhs.
- **C. U. Rivonker**, Ballast Water Management Programme (India BAMPI), 6 years, Ministry of Shipping, Government of India, New Delhi (Nodal agency : NIO, CSIR, Goa), Rs.104.00 Lakhs.

Papers presented in Seminars/Conferences/Workshops, etc.:

- **G. N. Nayak**, UGC-SAP National Seminar 'Marine biodiversity and Coastal Pollution', Berhampur University, Orissa, 25-26 March 2013, 'Bioavailability in mudflat sedimentary environments and health of estuaries'.
- **G. N. Nayak**, IGU Golden Jubilee National Workshop, NIO, Goa, 21-22 February 2013, 'The Sediment – a host of proxies for Earth process studies'.

- **X. Crosta, S. Shukla, G. Cortese, G. N. Nayak**, 'Pages Goa 2013' 4th Open Science Meeting, Cidade NIO Goa, 13-16 February 2013, 'Climate controlled size variability of diatom fragilariopsis kerguelensis in the Southern Ocean'.
- **S. Volvoikar, G. N. Nayak, A. Mazumdar**, 'Pages Goa 2013' 4th Open Science Meeting, Cidade NIO Goa, 13-16 February 2013, 'Depositional environment of intertidal mudflat and mangrove environments with time within a tropical (Vaitarna) estuary, West Coast of India'.
- **L. Fernandes, G. N. Nayak**, 'Pages Goa 2013' 4th Open Science Meeting, Cidade NIO Goa, 13-16 February 2013, 'Chemical fractionation of metals in sediment cores of intertidal regions along Ulhas estuary Mumbai, India'.
- **G. N. Nayak, C. Noronha**, '29th Convention of Indian Association of Sedimentologists', Pondichery University, 20-21 December 2012, 'Geochemical signatures of metals within mudflats of a tropical (Vaghotan) estuary, West Coast of India'.
- **M. R. Nasnodkar, G. N. Nayak**, '29th Convention of Indian Association of Sedimentologists', Pondichery University, 20-21 December 2012, 'Tracing the sources of metals of mudflat sediments within estuaries along central West Coast of India'.
- **M. C. Fernandes, G. N. Nayak**, '29th Convention of Indian Association of Sedimentologists', Pondichery University, 20-21 December 2012, 'Grain size effect on distribution of selected trace metals in the mudflat sedimentary environment'.
- **L. Fernandes, G. N. Nayak**, National Conference 'Environmental Pollution – challenges and Remediation', Marudhar Engineering College, Bikaner, 19-20 October 2012, 'Status of heavy metal accumulation in intertidal sediments of Thane creek, Mumbai'.
- **G. N. Nayak**, International Conference 'Hydrology 2012 and Ground Water Expo.', San Antonio, Texas, USA, 10-12 September 2012, 'Metal speciation and contamination in intertidal region of a tropical estuary, India'.
- **S. Halarnekar, H. B. Menon, P. R. Renosh, N. P. Sangekar, S. Nulageri**, '11th Biennial Conference of Pan Ocean Remote Sensing Conference, (PORSEC) 2012', Kochi, India, 5-9 November 2012, 'Variability of bio-optical properties of coastal waters along the eastern Arabian Sea and the implications to primary productivity'.
- **S. Shirodker, H. B. Menon**, '11th Biennial Conference of Pan Ocean Remote Sensing Conference, (PORSEC) 2012', Kochi, India, 5-9 November 2012, 'Interannual variability of aerosol radiative properties over Goa'.
- **N. P. Sangekar, H. B. Menon**, 11th Biennial Conference of Pan Ocean Remote Sensing Conference, (PORSEC) 2012, Kochi, India, 5-9 November 2012, 'Spatial and temporal variability of Remote sensing reflectance (Rrs) in Mandovi and Zuari estuaries'.
- **S. Shirodker, H. B. Menon**, '10th Annual International Conference of Asian Oceania Geoscience Society, (AOGS)', Singapore, 3- 4 August 2012, 'Temporal variability of aerosol optical depth, (AOD), BC mass concentration and the associated radiative forcing over a coastal site at the West Coast of India'.
- **K. Krishnamoorthy, S. S. Babu, R. Chaudari, T. K. Pant, D. Balasubramaniam, K. Kumar. H. B. Menon**, National Workshop 'Evaluation of Research Projects for Planning the XXXXII Indian Scientific Expedition to Antarctica' NCAOR, Vasco, India, 27-28 June 2012, 'Climate change research and low latitude high latitude coupling'.

Research Publications:

a. National/International Journals:

- **K. T. Singh, G. N. Nayak, L. L. Fernandes, D. V. Borole, N. Basavaiah**, 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, *Palaeogeography Palaeoclimatology, Palaeoecology*, 2013, International, IF 2.745, dx.doi.org/ org/10.1016/j.palaeo.2013.04.008.
- **S. Shukla, X. Crosta, G. Cortese, G. N. Nayak**, Climate mediated size variability of diatom fragilariopsis kerguelensis in the Southern Ocean, *Journal of Quaternary Science Reviews* 69: 49-58, May 2013, International, IF 4.076.
- **S. P. Volviokar, G. N. Nayak**, Evaluation of impact of industrial effluents on intertidal sediments of a creek, *International Journal of Environmental Science and Technology* 10: 941-954, 2013, International, IF 1.844. DOI 10.1007/s 13762-013-0231-2.
- **S. P. Volviokar, G. N. Nayak**, Depositional environment and geochemical response of mangrove sediments from creeks of northern Maharashtra coast, India, *Marine Pollution Bulletin* 69:223-227, 2013, International, IF 2.531.
- **A. Pande, G. N. Nayak**, Understanding distribution and abundance of metals with space and time in estuarine mudflat sedimentary environment, *Journal Environmental Earth Science* 70: 2561-2575, 2013, International, IF 1.445, DOI 10.1007/s 12665-013-2298-y.
- **K. T. Singh, G. N. Nayak, L. L. Fernandes**, Geochemical evidence of anthropogenic impacts in sediment cores from mudflats of a tropical estuary, Central west coast of India. *Soil and Sediment Contamination* 22: 256-272, 2013, International, IF0.509.
- **I. A. Mir, J. N. Pattan, V. M. Matta, V. K. Banakar**, Variation of Paleo productivity and Terrigenous Input in the Eastern Arabian Sea during the Past 100 ka, *Journal Geological Society of India*, 81:647-654, 2013, National, IF : 0.567.
- **J. N. Pattan, I. A. Mir, G. Parthiban, S. G. Karapurkar, V. M. Matta, P. D. Naidu, W. A. Naqvi**, Coupling between suboxic condition in sediments of the western Bay of Bengal and southwest monsoon intensification: a geochemical study, *Chemical Geology* 343:55-66, 2013, International, IF : 2.732.
- **M. Hegde, C. U. Rivonker**, A new record of *Tennopleurus decipiens* (de Meijere, 1904) (Echinoidea, Temnopleuroida: Temnopleuridae) from Indian waters, *Zoosystema* 35(1): 97-111, 2013, Doi/org/10.5252/Z20134128.
- **V. Padate, C. U. Rivonker, A. C. Anil**, A new record of *Scylla olivacea* (Decapoda, Brachyura, Portunidae) from Goa, central west coast of India – a comparative diagnosis, *Indian Journal of Geo-Marine Sciences* 42(1):82-89, 2013, National, IF: 0.563.

Articles in Books/Proceedings:

- **R. Siraswar, G. N. Nayak**, Role of suspended particulate matter in metal distribution within an estuarine environment: A case of Mandovi Estuary, Western India, pp.377-394. *In: On the Sustenance of Earth's Resources*, Springer, International, May 2013.
- **L. Fernandes, G. N. Nayak**, Assessment of metal pollution in Ulhas estuary, Mumbai, India, pp.395-409 *In: Block: On the Sustenance of Earth's Resources*, Springer, International, May 2013.

- **G. N. Nayak**, Sediment as an indicator of health of tidal wetland ecosystem, Proceedings of National Conference 'Wetlands and Water', Uttara Kannada Jilla Vijnana Kendra, Karwar, National, February 2013, pp. 40-62.

Number of Ph. D.'s awarded: 01.

Awards/Honours Conferred:

- **G. N. Nayak**, member of Ocean Science and Technology Cell, Tamil University, Thanjavur 2010-2013.
 - **G. N. Nayak**, expert member of UGC in UGC- SAP Department of Marine Sciences and Technology, Manonmanian University, Tamil Nadu.
 - **G. N. Nayak**, expert member of UGC in UGC-SAP Department of Marine Sciences, Berhampur University, Berhampur.
 - **S. Hulsar**, Research Student participated in Antarctic expedition in connection with his studies on 'Middle atmospheric aerosol dynamics'.
 - Four M. Sc. students have qualified CSIR-UGC NET; of these two have qualified for fellowship and other two for lecturership.
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Department of Zoology

Faculty:

P. V. Desai, Ph. D., Professor & Head (Superannuated on 31 July 2012) - Physiology, Neurophysiology, Tissue Culture.

R. Roy, Ph. D., Professor & Head, (from August 1, 2012) - Environmental Physiology & Biochemistry, Lipid Biochemistry, Nutritional Biochemistry.

A. B. Shanbhag, Ph. D., Professor - Endocrinology, Wetland Biology.

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

I. K. Pai, Ph. D., Associate Professor - Genetics, Sericulture.

Temporary Faculty:

K. K. Karingada Therisa, M. Sc., Assistant Professor, Neurophysiology.

Shivraj Bhoite, M. Sc., Assistant Professor, Environmental Physiology.

Major Thrust Areas of Research:

Animal tissue culture pertaining to cell lines of some invertebrates; electro physiology of nervous and cardiac tissues; 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; to understand the hepatitis and its prevention; 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.

Visiting Scholars:

- **Prof. P. Nayak**, NRI Medical College of General Hospital Guntur, A.P., delivered lectures in Neurophysiology, Cardiac physiology, Digestive physiology and Renal physiology, 30 September to 4 October 2012.

Ongoing Projects/Completed during June 2012-May 2013:

- **S. K. Shyama**, 'Evaluation of the genotoxic effect of ionizing radiation in somatic/germinal cells of fishes', 2009-2013, 5 years, BRNS, DAE, Government of India, Rs. 36.629 Lakhs.
- **S. K. Shyama**, 'Genotoxicity studies on field population of commercially important fin fishes and shell fishes of central west coast of India' 2010-2013, 3 years, Ministry of Earth Sciences, Government of India, Rs. 15.894 Lakhs.

- **S. K. Shyama, R. B. Tangsali**, 'Genotoxicity Investigation of magnetic nanoparticles (MNPs) in mammalian cell'. A component of a joint interdisciplinary project entitled 'Synthesis, characterization and applications of functionalised nanomaterials', 2010-2013, 3 years, DST, Government of India, Rs. 260.904 Lakhs.
- **R. Roy**, 'Lipidomics of some fishes: Control of Inflammatory diseases', 2009-2012, 3 years, Department of Biotechnology, Government of India, Rs. 32.50 Lakhs.

Seminars / Conferences/Workshops, etc. organized:

- Hands on Workshop 'HPLC and Ultracentrifuge', 14-15 March 2013, Goa University.

Papers presented in Seminars/ Conferences/Workshops, etc.:

- **I. K. Pai**, National Seminar 'Waste management and alternate energy sources', St. Aloysius College, Mangalore, 10-11 December 2012, 'Waste Management at Antarctica'.
- **I. K. Pai**, National Seminar 'Recent trends in life sciences', RCS College, Kolhapur, 28-29 January 2013, 'Life in Antarctica'.
- **I. K. Pai**, National Seminar 'Environment management and its future perspective', MES Manpad College, Kerala, 1-13 February 2013, 'Antarctica Research: An Indian perspective'.
- **M. Lizanne, I. K. Pai**, International Symposium 'Soil organic matter dynamics', Nanjing, China, May 2013, 'Soil inhabiting free living nematode fauna-irreplaceable organism in soil detritus food web'.
- **M. K. P. Kumar, S. K. Shyama, S. S. Bhagat, R. C. Chaubey**, National Conference 'Current Perspectives of Environmental Mutagenesis and Human Health', BARC, Bombay, 28-30 January 2013, 'Evaluation of *Cyprinus carpio* using comet assay'.
- **S. B. Kadam, S. K. Shyama, V. G. Almeida**, National Conference 'Current Perspectives of Environmental Mutagenesis and Human Health', BARC, Bombay, 28-30 January 2013, 'Evaluation of *Cyprinus carpio* using comet assay'.
- **S. B. Kadam, S. K. Shyama, V. G. Almeida**, National Conference 'Current Perspectives of Environmental Mutagenesis and Human Health', BARC, Bombay, 28-30 January 2013, 'Gamma radiation induced genetic damage in the lymphocytes of the head and neck cancer patients undergoing radiotherapy'.
- **A. D'Costa, S. K. Shyama**, Sixth International Congress 'Nanotoxicology', Beijing, China, 4-7 September 2012, 'In vivo Genotoxicity studies of Manganese and Nickel doped Zinc Ferrite nanoparticles in Swiss albino mice'.
- **P. Pujari, R. Roy**, Baoding International Congress of Internal Medicine, Baoding Medical College, Baoding, China, 16-18 August, 2012, 'Role of Fish oil in ameliorating the hepatitis in Swiss Albino mice, *Mus musculus*'.

Research Publications:

a. National/International Journals:

- **S. D'Costa, I. K. Pai**, Zooplankton dynamics in the coastal waters of Malvan, Maharashtra, India, *Research Journal of Animal, Veterinary and Fishery Sciences*, 11(1):1-4, 2013.
- **K. Priolkar, I. K. Pai**, Diversity and seasonal abundance of zooplankton communities in two sacred temple tanks of Ponda Taluka, Goa, *Journal of Applied Bioscience* 39(1):19-23, 2013.

- **S. Mochemodkar, M. Gauns, A. Pratihary, B. Thorat, R. Roy, I. K. Pai, S. W. A. Naqui**, Response of Phytoplankton to nutrient enrichment with high growth rates in a tropical monsoonal estuary: Zuari estuary, India, *Indian Journal of Geo-Marine Sciences* 42(3):314-325, 2013.
- **M. Desai, A. B. Shanbhag**, An avifaunal case study of a plateau from Goa, Indian eye opez for conservation of Plateau ecosystems, *Journal of Threatened Taxa* 4(3): 244-253, 2012.
- **S. K. Kadam, S. K. Shyama, V. G. Almeida**, Evaluation of the in vivi Genotoxic effects of gamma radiation on the peripheral blood leukocytes of head and neck cancer paptient undergoing radiotheraphy, *Mutation Research - Genetic Toxicology and Environmental Mutagenesis* 752:42-46, 2013.
- **G. Kumar, P. K. Swaraj, S. K. Shyama**, Evolutionary history and physlogenetic relationship between *Auxis thazard* and *Auxis rochei* inferred from COI sequences of mt DNA, *International Journal Bioinformatics Research and Applications* 9:604-613, 2013.
- **S. Bhoite, R Roy**, Role of membrane lipid in osmoreulatory processes during salinity adaptation: a study with chloride cell of mud crab, *Scylla serrata*, *Marine and Freshwater Behavior and Physiology* 46(5):287-300, 2013.

Articles in Books/Proceedings:

- **I. K. Pai**, Antarctic Research: In Indian Perspective, *In: Proceedings of National Seminar 'Environmental Management and its future perspectives'*, 2013.
- **M. L. Pereira, I. K. Pai, F. G. Costa**, Biological Responses of *in vivo* Studies to Contaminants: a Contribution to Improve Public Health Knowledge, *In: Current Topics in Public Health*, (ISBN 980-953-307-868-2), *Ed. Alfonso Rodriguez Morales*, Publisher INTECH,Open Science, Croatia, 2013.

Infrastructure: Biosafety cabinet, Egg incubator, Monocular microscope, Thermal Cycler.

Number of Ph.Ds Awarded: 01

Department of Biotechnology

Faculty:

U. M. X. Sangodkar, Ph. D., Professor - Genetic Engineering, Microbiology, Biodegradation.

U. Barros, Ph.D., Associate Professor - Bioactive substances of clinical/medical importance, Immunology, Lectins and Anti-Oxidants from sea weeds.

S. C. Ghadi, Ph. D., Associate Professor - Applied Enzymology, Molecular Biology.

U. D. Muraleedharan, Ph. D., Associate Professor & Head - Biochemistry, Enzymology, Biological Oceanographic Processes.

S. Kerkar, Ph. D., Associate Professor - Marine Microbiology, Hypersaline ecosystems, Sulphate reducing bacteria.

List of visiting scholars invited to deliver Special Lectures.

- Dr. Andrew M. Lynn**, School of Computational and Integrative Sciences, JNU, 'Open source Drug Discovery', 13 August 2012.
- **Dr. Gaurav Mathur**, Associate Director, QUINTILES, 'Drug Development', 13 August 2012.
 - **Prof. R. V. Shaji**, C. M. C., Vellore, 'Induced Pluripotent Stem Cells', 12 September 2012.
 - **Prof. A. Surolia**, Professor of Biophysics, Indian Institute of Science, Bangalore and Ex-Director, National Institute of Immunology, New Delhi. 'Lectins', 19 October, 2012.
 - **Dr. Ryan Apolin Pereira**, Senior Advisor Education, USIEF, 'Higher Education in the US'.
 - **Dr. Smita Lele**, Professor of Biochemical Engineering, Food Engineering and Technology Department, ICT, Mumbai, 'Role of the academic in technical innovations in food industry', 'Women in Science: Yesterday, Today and Tomorrow', February 2012.
 - **Dr. Praveen Rai, Dr. Biswajit Maithi, Dr. Naveen Kumar**, College of Fisheries, Mangalore University, delivered lectures on 'Aquaculture Technology' and 'Marine Pharmacology', 26-28 March 2013.
 - **Dr. G. G. Pandit**, Head, Environmental Monitoring and Assessment Section, BARC, Mumbai, 'Distribution and fate of persistent organic pollutants in marine ecosystems', 10 April 2013.

Major Thrust Areas of Research:

Agarases and other commercially important enzymes from marine bacteria; Microbial diversity and bioprospecting in hypersaline environment; Bioremediation of heavy metals using heterotrophic and halotolerant bacteria; Extraction of toxins from marine organisms; 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; Bioactive molecules from plant sources; Biogeochemical processes of mangroves and marine salterns; Effect of global warming on sulphate reducing bacteria from Arctic; Extraction and study of lectins from marine algae; Biofilm associated saltpan bacteria as potential biofertilizer for saline soil and halotolerant

bacteria as probionts in aquaculture; 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.

Achievements:

- A novel species with multiple polysaccharide degrading capability and belonging to *Microbulbifer* genus has been isolated from mangrove area.
- Medicinal property associated with *Grewia nervosa* is being studied. The plant extracts show promising anti-diabetic and antioxidant activity.
- Establishing the potential of a peptide antibiotic produced by a salt pan isolate. Halotolerant bacteria with promising antagonistic activity against phytopathogenic fungi have been studied.
- Assessment of heavy metal pollution in mangrove/sediments has been carried out.
- Regulation of SRA in Mangrove ecosystems with ambient Fe concentration studied.
- Hypersaline bacteria have been used as probionts in aquaculture.
- Biofertilizer potential of Hypersaline bacteria on leguminous plants has been established.
- IAA producing bacteria have been reported for the first time from biofilms of solar salterns.
- Purification of cellulase activities from the marine protists, Thraustochytrids.
- Amylase activity from thraustochytrids has been quantified.
- Bioactive peptides from mangrove plant extracts have been partially characterized.
- Preliminary studies on biodiesel production carried out.

Ongoing Projects/Completed during June 2012 - May 2013:

- **Savita Kerkar**, 'Bioprospecting of hypersaline bacteria for the production of anti-fungal compounds and enzyme inhibitors', 24 September 2008 to 31 March 2013, Council of Scientific and Industrial Research (CSIR), Rs. 29.8656 Lakhs.

Sponsored Consultancy Work Undertaken:

- **Savita Kerkar**, Purifier water analysis for total coliforms and TDS, Eureka Forbes, 25 September 2012 to 21 March 2013, Rs. 0.21 Lakhs.

Research Publications:

a. National/International Journals:

- **P. Vashisht, Y. Negi, S. C. Ghadi, P. Verma, Y. S. Shouche**, *Microbulbifer* Mangrove sp.nov; Polysaccharide degrading bacterium isolated from the Mangroves of India, *International Systematic Evolutionary Microbiology* 63: 2532-2537, 2013, International, IF : 2.11.
- **V. Lilly, A. Devasia, U. D. Muraleedharan**, Polysaccharide-degrading enzymes from the marine protists, thraustochytrids, *Biotechnology, Bioinformatics and Bioengineering* 2: 617-627, 2012 International.
- **F. Pereira, S. Kerkar, K. P. Krishnan**, Bacterial response to dynamic metal concentrations in the surface sediments of a solar saltern (Goa, India), *Environmental*

Monitoring and Assessment 185: 3625-3636, 2012, International, IF:1.592.
<http://link.springer.com/article/10.1007%2Fs10661-012-2814-7#page-1>.

Articles in Books/Proceedings:

- **S. Kerkar**, The effect of a temperature rise on the sulphate reducing rates in cold marine sediments of Kongsfjorden (Svalbard, Arctic Ocean), *pp.* 213-221, *Scientific and Geopolitical Interests in Arctic and Antartic, Proceedings of International Conference on Science and Geopolitics of Arctic and Antartic (iSaGAA)*, Eds. R. Ramesh, M. Sudhakar and S. Chattopadhyay, LIGHTS Research Foundations, 296, March 2013.

Number of Ph.Ds awarded: 02

Placement Details: 09

Awards/Honours/Fellowships Conferred:

- **Savita Kerkar**, awarded 'Lupin Visiting Fellowship Endowment' for the year 2012-13 at Institute of Chemical Technology (ICT), Mumbai 400 019, India.
- **Michelle Sophia Fernandes**, awarded 'Maulana Azad Fellowship for Minority' to persue doctoral studies.
- **Surya Nandan Meena**, awarded SRF (DBT) Fellowship w.e.f. 22 November 2012.

Papers presented in Seminars/Conferences/Workshops, etc.

- **S. Ghadi**, International Conference 'Microbial world: Recent Innovations and Future trends', KIIT University, Bhubaneswar, 22-25 November 2012, 'Multifarious applications of marine polysaccharide degrading enzymes'.
 - **S. Ballav, S. Kerkar**, International Conference 'Microbial world: Recent Innovations and Future trends', KIIT University, Bhubaneswar, 22-25 November 2012, 'Marine salterns of Goa: A hypersaline niche for diverse actinobacteria with anti-microbial potential'.
-

2.5: Faculty of Management Studies

2.5.0 General information - Departments and Degrees:

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

FACULTY BOARD

Dean, Faculty of Management Studies	Chairman (Ex-Officio)
Head, Department of Management Studies	Member (Ex-Officio)
Dr. Purva G. Hegde Desai	Member
Dr. M. S. Dayanand	Member
Dr. R. Nirmala	Member
Dr. Nilesh Borde	Member

Department of Management Studies

Faculty:

Nandakumar Mekoth, Ph. D., Professor & Head- Marketing, Finance.

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

Purva Hegde Desai, A.C.A., Ph. D., Associate Professor – Finance, Marketing.

R. Nirmala, Ph. D., Assistant Professor – Marketing, Human Resources.

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

Contract basis:

Tejashree Kolvalkar, Ph. D., Assistant Professor – IT.

Edgar D'souza, M. Sc. T. H. M., Assistant Professor, Hospitality Management.

Kevin D'souza, M. A. T. M., Assistant Professor, Hospitality.

Major Thrust Areas of Research and Achievements:

Consumer behaviour and organisational behaviour with reference to complaining behaviour, customer satisfaction and loyalty, stress management, quality of work life, market orientation and attraction development; hospitality and tourism, healthcare and banking. The department has started Integrated MBA course in Hospitality, Travel and Tourism.

No. of Ph.Ds awarded: 01

Infrastructure:

EBSCO: Journal Data Base; Wireless Connectivity for Laptops; Course Management Software; SPSS; Capita Line; Book-Bank; Print Journals; Digital Server System; LCD Projectors; Heavy Duty Scanner; Interactive Board; Digital Visualizer.

Seminars/Conferences/Workshops, etc organised.

- Interview Facing Skills, March 2013, UGC.

Research Publications:

a. National/International Journals:

- **R. Nirmala, P. M. Cardoso**, Gender Differences and Marital Status in Organisational Role Stress among medical doctors, *Scottish Journal of Arts, Social Sciences and Scientific Studies* 2: 100-108, 2012, ISSN 20471278, <http://scottishjournalco.uk>
- **R. Nirmala, P. M. Cardoso**, Occupational Role Stress in dual-doctor marriages and doctor–non doctor marriages, *International Journal of Human Resource Management* 2:1-8, 2013, ISSN 2319 4936.
- **C. F. V. Fernandes, N. Mekoth, S. Kumar, B. P. George**, Organisational Role Stress and the function of selected organisational practices in reducing it: empirical evidence from the banking service frontline in India, *International Journal of Behavioural and Health Care Research* 3(3&4):258-272, 2012.

- **M. Sony, N. Mekoth**, A typology for frontline employee adaptability to gain insights in service organisations – a view point, *International Journal Services and Operations Management* 12(4):490-508, 2012.

b. Articles in Books/Proceedings:

- **P. H. Desai, V. Waikar**, 'HRM Risks and Risk Management Practices in Hotel Industry', pp. 106-109, 'The study of Work and Organizational Values', Ed. Maaja Vadi, ISSVOW and Goa University, ISBN: 978-0-9817997-2-8, 2012.
- **B. Ramesh, N. Borde**, Portfolio Creation using Shareholder Value Creation in Indian Markets, Mapping the Global Future: Evolution through Innovation and Excellence, Global Business and Technology Association, ISBN:1-932917-08-X, 2012.
- **N. Borde, P. H. Desai**, An Empirical Analysis of Shareholder Value Creation as a Proxy for Measuring Corporate Performance in Indian Markets, Mapping the Global Future: Evolution through Innovation and Excellence, Global Business and Technology Association, ISBN:1-932917-08-X, 2012.
- **R. Nirmala, N. Borde**, 'T. A. Bill – A Case Study', 'Case study and Recent trends in Commerce and Management', All India Social Science Research Association, Publisher EXCEL India, ISBN: 978-93-81361-20-7, 2012.
- **P. H. Desai, N. Borde**, Initiatives towards Industry Academia Interaction, pp. 196-203, 'Sustaining Management Education in India in 21st Century' Ed. R. K. Trivedi, Wisdom Publications, Delhi 110 095, India, ISBN: 978-93-81505-59-5, 2013.
- **T. Colvalkar, P. H. Desai**, 'Women and Health', pp. 299-308, 'Role of Women in Indian Society', Ed. Abdul Matin, ISBN 978-93-80820-53-8, 2013.
- **P. H. Desai, F. D'Souza**, 'Perceived Justice in Service Recovery Efforts in Airline Industry', pp. 21-32, 'Changing Dynamics in the Global Village', Ed. S. Altekar, Bloomsbury Publishing India Pvt. Ltd., New Delhi 110 070, India, ISBN: 978-93-82563-59-4, 2013.

Awards/Honours Conferred:

- **P. H. Desai**, received the Best Paper Award in marketing category and won award of Rs.5000/- for the paper 'Perceived Justice in Service Recovery Efforts in Airline Industry', Symbiosis, Noida (SCMS), January 2013.

Papers presented in Seminars/Conference/Workshops, etc.:

- **N. Mekoth, E. D'souza, K. D'Souza**, National Conference 'Innovations in Tourism and Hospitality Sector in India', Dr.Y.S.R National Institute of Tourism and Hospitality Management, Hyderabad, Andhra Pradesh, 25-26 October 2013, 'Technology Driven Innovation in Hospitality Firms: What Do Customers say?'
- **R. Krishnagopal, R. Nirmala, N. Mekoth**, Work Values - Stability and Change in the International Context, International Society for Study of work and organisational values (ISSWOV) in association with Goa University, Goa, India, 24-27 June 2013, 'Importance of Different Values for senior executive and establishes link with their scores on transformational leadership'.

- **R. Shanthikiran, R. Nirmala, S. Angle**, Work Values- Stability and Change in the International Context, International Society for Study of work and organisational values (ISSWOV) in association with Goa University, Goa, India, 24-27 June 2013, 'Model for building transformational leaders at workplace'.
 - **N. Mekoth, K. G. Sankaranarayanan, R. Nirmala**, Effective Leadership- Organisational Change Management, St. Aloysius College's Aloysius Institute of Management and Information Technology, Mangalore, Karnataka, India, 7-8 February 2013, 'Effective Leadership'.
 - **N. Mekoth, K. G. Sankaranarayanan**, Foreign Direct Investment – the Indian Scenario, School of Business Management and Legal Studies, University of Kerala, Thiruvananthapuram, Kerala, India, 23-24 March 2013, 'Attitude to Shopping Customer Satisfaction and Implications on Retail Formats'.
 - **A. Mesquita e Noronha, N. Mekoth**, Glion Institute of Higher Education, Montreux, Switzerland, 4-5 October 2012, 'Emotions, Patient Behaviour and the Moderations to impact of SS on emotions among customers of LC services'.
 - **G. Hegde, N. Mekoth**, Benefit Perceptions of organic food customers: An empirical analysis of urban customers, Euromed Annual Conference, Glion Institute of Higher Education, Montreux, Switzerland, 4-5 October 2012.
 - **A. Mesquita e Noronha, N. Mekoth**, International Conference 'Marketing and Consumer Behaviour', IAPM, Porto Portugal, 16-17 May 2013, 'Social Support expectations from Healthcare systems – Antecedents and emotions'.
 - **R. Pinto, N. Mekoth**, International Conference 'Marketing and Consumer Behaviour', IAPM, Porto Portugal, 16-17 May 2013, 'Customer reactions to message framing in cause related marketing'.
 - **M. S. Dayanand**, Fourth International Conference of Indian Tourism Congress, Tashkent, Uzbekistan, Indian Tourism Congress and Tashkent State University of Economics, Tashkent, Uzbekistan, 10-13 August 2012, 'Impact of Business Conferences on Destination Brand Personality: Case Study of Goa'.
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2.6: Faculty of Commerce

2.6.0 General information - Departments and Degrees:

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

FACULTY BOARD

Dean, Faculty of Commerce

Prof. B. Ramesh

Prof. Y. V. Reddy

Dr. A. Raju

Chairman (Ex-Officio)

Member (Ex-Officio)

Member (Ex-Officio)

Member

Department of Commerce

Faculty:

Y. V. Reddy, Ph. D., Professor, Head & Dean - Accounting & Finance and Capital Market Studies.

B. Ramesh, Ph. D., Professor, Accounting & Finance, Capital Market Studies.

Anjana Raju, Ph. D., Associate Professor - Accounting & Finance, Capital Market Studies, Mergers & Acquisitions and Financial Services.

K. B. Subhash, Ph. D., Associate Professor- Finance, Quantitative Techniques, Materials Management, Strategic Management.

P. Sriram, Ph. D., Assistant Professor - Finance, Accounting and Security Analysis, Portfolio Management.

Temporary Faculty:

Pournima S. S. Dhume, M. Com., Assistant Professor, Accounting & Finance, Financial Services, Taxation & Capital Market Studies.

Poornima B. G., M. Com. M.Phil., Assistant Professor, Accounting & Finance.

Sponsored Consultancy:

- **Y. V. Reddy**, Evaluation of sports facilities in Goa, Sports Authority of Goa, 6 months, Rs. 2.35 Lakhs.

Research Publications:

a. National/International Journals:

- **B. Ramesh, P. Sri Ram**, Rating of Corporate Governance Practices of India Incorporations: Methodological Issues, *'Quality Times', A Journal of the Institute of Directors*, XVII (10): 23-24, 2012.
<http://www.iodonline.com/pdf/2012/october.pdf>.
- **B. Ramesh**, Global Financial Crisis and its Impact on India, *The Indian Journal of Commerce*, National, 65(2): 1-6, 2012, ISSN No.0019-512X.
- **B. Ramesh, A. K. Garag, P. Desai**, Study of the impact of MGNREG Scheme in Belgum District, *'Tatava' Bi-Annual Journal of KLE*, National, IX(2): 38-50, 2012, ISSN No. 0973-0974.
- **S. Naik, Y.V. Reddy**, An Assessment of the appropriate use of Structural Equation Modeling Model Fit Indices, *Open Access Scientific Reports*, 2(2): 1-6, 2013.
- **S. Naik, Y. V. Reddy**, Determinants of Export Performance Measurement: An Assessment of Export Research Articles in International Business Journals, *FIIB Business Review I* (Special Issue):15-30, 2012, National.
- **Y. V. Reddy, A. Sebastin**, Entropic analysis in Financial Forensics. *The IUP Journal of Accounting Research and Auditing Practices*, XI (3):42-57, 2012, National.

- **G. A. Raju, S. M. Popkar**, Member's Perception of Marketing and Quality of Services provided by the Dairy Milk Societies in Goa : A Case Study, *SPURTHI-IMSR Journal of Management Thoughts*, II(2):19-22, 2012, National.
- **K. B. Subhash**, Geography of Business Incubators, Incubatees, and Venture Capitalists: The Untapped Entrepreneurial Talents in India, *Journal of Entrepreneurship and Management* I(3): 1-14, October 2012, National.
- **R. Chen, K. B. Subhash, V. George, K. Weiermair**, Learning Motivation, Performance, and Satisfaction: A Comparison between Students Majoring in Tourism and Hospitality Programmes from Taiwan and India, *International Journal of Tourism and Hospitality Systems* I(1):1-11, June, 2012, International.

b. Books /Monographs published:

- **B. Ramesh, S. Shanbhogue**, 'Socio Economic Impact of Public Finance in India', Prateeksha Publications, Jaipur, India, July 2012.

c. Articles in Books/Proceedings:

- **B. Ramesh, N. Borde**, Portfolio Creation using Shareholder Value Creation in Indian Capital Markets, Readings Book, Global Business and Technical Association (GBATA), 14th Annual International Conference, New York City, New York, USA, 2012, pp. 810-817, ISBN-1-932917-08-X, www.gbata.org/wp-content/uploads/2013/GBATA_2012.
- **B. Ramesh, P. Dhume**, 'Fund Size and its impact on the Performance of Mutual Funds: Evidence from the existing Studies', In: Emerging Trends in Indian Commerce, MG Maha Vidyalaya, Ahmedpur, Latur, December, 2012.
- **B. Ramesh**, 'Performance Evaluation of Indian Equity Mutual Funds', 24th All India Management Schools Annual Management Convention, 2012, AIMS, 25-27 August 2012.
- **K. B. Subhash, K. Weiermair, R. Chen**, 'Empowerment at the Bottom of the Pyramid: Poverty Reduction through Rural Tourism', pp. 377-394, APTA 2012 Taipei Conference Proceedings, Ed. Chienho Chen, National Taipei University of Nursing and Health Services, and Taiwan Hospitality and Tourism College, June 2012.
- **P. Sriram**, 'Impact of Corporate Governance on Corporate Performance (An assessment and Effectiveness of Selected Corporate Units)', 24th All India Management Schools Annual Management Convention, 2012, AIMS, 25-27 August 2012.

No. of Ph.Ds awarded: 02

Papers presented in Seminars/Conferences/Workshops, etc.:

- **B. Ramesh, N. Borde**, Mapping Global Future: Evolution through Innovation and Excellence, Global Business and Technical Association (GBATA), New York City, New York, USA, 10-14 July 2012, 'Portfolio Creation using Shareholder Value Creation in Indian Capital Markets'.
- **B. Ramesh**, All India Accounting Conference and International Seminar on Accounting Education and Research, Department of Business Management, Saurashtra University, Rajkot, 5-6 January 2013, 'Shareholder Value Creation through Buyback of Equity'.

- **B. Ramesh, P. S. S. Dhume**, AIMS Innovative Management Education for Sustainable Development, AIMS Annual Management Education Convention, Hyderabad, 25-27 August 2012, 'Performance Evaluation of Indian Equity Mutual Funds'.
- **B. Ramesh, P. S. S. Dhume**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'FDI in Multi-Brand Retail: Boon or Bane?'
- **B. Ramesh, P. S. S. Dhume**, National Conference on 'Emerging Trends in Indian Commerce' Sponsored by UGC, New Delhi & SRTM University, Department of Commerce, Mahatma Gandhi Mahavidyalaya, Ahmedpur District, Latur, Maharashtra, 27-28 December 2012, 'Fund size and its impact on the performance of Mutual funds: Evidence from Existing Studies'.
- **G. A. Raju, M. John**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'Corporate Governance Disclosure Practices of IT Companies of selected Indian Companies of BSE-500 index'.
- **G. A. Raju, S. M. Popkar**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'Reporting Practices in Cooperative Institution: A case study in Goa'.
- **G. A. Raju, R. Divkar**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'Foreign direct investment in Multi-brand Retailing: Opportunities and Challenges'.
- **G. A. Raju**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'If multi-brand retailing is working successfully in other developing countries then why not in India'.
- **G. A. Raju**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'Employer Branding Becomes A Tokenism - When It Doesn't Fit in the DNA of Companies in India'.
- **G. A. Raju**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'India breaks FDI shackles and liberalizes major sectors for preparedness path or faces Global Turbulence'.
- **K. B. Subhash, K. Weiermair, R. Chen**, 18th Asia Pacific Tourism Association (APTA) Conference 'New Tourism New Waves: Forging the Future of Asia Pacific Hospitality', Taiwan Hospitality and Tourism College and, National Taipei University of Nursing and Health Services, Hotel Grand, Taipei, Taiwan, June 26-29 2012, 'Empowerment at the Bottom of the Pyramid: Poverty Reduction through Rural Tourism'.
- **P. Sriram**, 'Innovative Management Education for Sustainable Development', 24th AIMS Annual Management Education Convention 2012, Hyderabad, Andhra Pradesh, 25-27 August 2012, 'Impact of Corporate Governance on Corporate Performance (An assessment and Effectiveness of Selected Corporate Units)'.
- **P. S. S. Dhume, B. Ramesh**, AIMS Innovative Management Education for Sustainable Development, AIMS Annual Management Education Convention, Hyderabad, 25-27 August 2012, 'Performance Evaluation of Indian Equity Mutual Funds'.
- **P. S. S. Dhume, B. Ramesh**, 65th All India Commerce Conference, K. P. B. Hinduja College of Commerce, Mumbai, 9-11 November 2012, 'FDI in Multi-Brand Retail: Boon or Bane?'.
- **P. S. S. Dhume, B. Ramesh**, National Conference 'Emerging Trends in Indian Commerce' sponsored by UGC, New Delhi and SRTM University, Department of Commerce, Mahatma Gandhi Mahavidyalaya, Ahmedpur District, Latur Maharashtra, 27-28 December 2012, 'Fund Size and its Impact on the performance of Mutual Funds: Evidence from Existing Studies'.

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

Faculty:

A. V. Afonso, Ph. D., Coordinator upto 31 December 2012.

N. Shyam Bhat, Ph.D. Professor and Dean, Faculty of Social Sciences, Coordinator from 1 January 2013.

Ishwar Singh, Ph. D., Assistant Professor-cum-Assistant Director was relieved on his request on 19 January 2013.

Sadanand B. Sugandhi, Ph. D., Assistant Professor-cum- Assistant Director was relieved on 30 April 2013.

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

Papers presented in Seminars/Conferences/Workshops, etc.:

- **B. Ramesh, N. Borde**, Mapping Global Future: Evolution through Innovation and Excellence, Global Business and Technical Association (GBATA), New York City, New York, USA, 10-14 July 2012, 'Portfolio Creation using Shareholder Value Creation in Indian Capital Markets'.
 - **Sadanand B. Sugandhi**, International Seminar 'Tribal Development', Pacific Academy of Higher Education and Research University, Udaipur, Rajasthan, 1-2 June 2012, 'Cacra' A Tribal Village in Panaji - Capital of Goa: An Anthropological Study of Socio-Economic Development and Change'.
 - **Vijay M. Gawas**, International Seminar 'Tribal Development', Pacific Academy of Higher Education and Research University, Udaipur, Rajasthan, 1-2 June 2012, 'State and Tribal Development Policy'
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INNOVATIVE PROGRAMS

1. Research Development & Resources Mobilisation Cell (RDRM)

The University receives funds for Post-Graduate courses from the Ministry of Education, Government of Goa. Major source of funding for research comes from Research Projects and consultancies.

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), 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), 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 & Evaluation (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. Ocean Science & Technology Cell (OSTC) attached to the Department of Microbiology received special grant from Ministry of Earth Science (MoES), New Delhi, for its research activities every year.

In the year 2012-13, thirteen sponsored projects and five 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.

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 country'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.

3. Study India Programme

The Study India Programme (SIP) is a programme offered to a group of foreign students wanting to pursue study in India to earn credits. The Universities/Institutions desirous of sending 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 University is successfully running the SIP for the students of the College of International Relations, Nihon University, Japan. For the SIP 2012-2013 edition, the Nihon University had sent a batch of ten students. The programme for this 9th batch of the students was conducted from September 2012 to February 2013.

4. NSS Unit

The enrolment of NSS volunteers begun in the month of July and enrolled 10,446 candidates under all affiliated colleges in Goa. The Planners meeting was held on 5 July 2013. 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-plastic 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.

Voters enrolment

In order to have cent percent voter's enrolment of youth, the awareness campaign has been launched in colleges with the help of Election commission, Goa.

Organisation of Rally

NSS volunteers in large numbers participated in the rally organized by Govt. of Goa on 15th December, 2013, on the eve of Sardar Vallabai Patel as 'Run for Voting' Our NSS Volunteers participated according to regionwise and all colleges participated.

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

5. Extra Mural Studies and Extension Services (EMS & ES)

The meeting of the Board of Extra Mural Studies and Extension Services was held on 17 April 2012 under the Chairmanship of Vice-Chancellor. Four different programmes out of five proposed by the Co-ordinator were approved and accordingly resolution was passed. The amount of Rs. 1.9 Lakhs was sanctioned under budget head "F. Board of Extra Mural Education" to carry out the following mentioned programmes.

The programmes which were sanctioned are as follows:-

- Mass education through specially made films on topics affecting people (10 programmes).
- Popular talks: Science/culture/history (10 programmes).
- Workshop on Rain water harvesting and conservation (1 programme)
- Workshop on Preservation of Goan Folk Culture (instead of this, workshops on rainwater harvesting were conducted due to demand for the same, after obtaining the approval from Chairman, EMS and ES).

1) Mass education through specially made films on topics affecting people:

The interactive programmes of 'Specially made mass education film with live commentary' on topic 'Natural Calamities' which included Global warming, Solar storm, Tsunami, Land slides, Volcano, earthquake and Floods were delivered by Prof. B. S. Mohite from Department of Chemistry, Shivaji University, Kolhapur at ten different venues from Parcem-Pernem in north Goa to Mashe-Canacona in south Goa from 17 December 2012 to 19 March 2013.

2) Popular talks: Science/culture/history

Popular science talks using power-point presentation of one hour duration followed by question answer session, as sanctioned by Board of EMS & ES, were delivered by Dr. Archana Gaonkar in seven different schools (mainly in village schools) on the topic 'Know your body' exclusively meant only for Std. V to VIII girl students. The talk elaborately deals with questions on hormonal and physical changes at puberty.

3) Workshop on Rain water harvesting and Conservation:

A total of four workshops on 'Rain water harvesting and Conservation' were held in association with Department of Earth Science, Goa University at Kamaleshwar Higher Secondary School, Korgao, Pernem (11 August 2012), S. S. Angle Higher Secondary School, Mashem, Canacona (15 September 2012), Azmane High School, Neura, Tiswadi (23 February 2013) and Fr. Agnel higher Secondary School, Verna, Salcete (16 March 2013) Printed coloured pamphlets on 'Rain water harvesting and conservation in their premises', were distributed to the participants.

6. 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.

Completed Project

- Exploration of sponge associated uncultivable marine bacterial endosymbionts (2008-2011) – **PI - Joseph Selvin.**

Ongoing projects:

- Anoxygenic phototrophic bacterial primary productivity and studies on the endolithic communities of marine ecosystems. - **PI - Ch. Venkata Ramana.**
- 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.**

In-house projects

- Detection and Biosorption of Fe and Mn in water of Mandovi estuary, Goa. **PI - G. N. Nayak.**
- Production of polyhydroxyalkanoates using marine bacteria. **PI - Sandeep Garg.**
- Bioremediation of waters contaminated with hydrocarbons, persistent organic pollutants and metals. **PI - Savita Kerkar.**
- Biosorption of Metals for Bioremediation of water used in salt farming. **PI - Sarita Nazareth.**
- Siderophore producing bacteria from marine and coastal ecosystems. **PI - Saroj Bhosle.**
- Biosorption of Fe/Mn by marine microbes (haloarchaea and eubacteria) and possibility of producing nanoparticle of Fe / Mn. **PI - Irene Furtado.**

2. Network Project

A Network project was conceptualised with 9 different Institutions/Universities and submitted to MoES for funding.

3. Brainstorming Meet

A brainstorming meet was organised for MoES on the theme of Microbial Oceanography. Twenty participants were invited by MoES from different institutions and universities and the areas for future studies were identified for developing the projects under the theme.

7. Distance Education, Information and Training Infrastructure (DEITI)

The DEITI was mostly engaged in audio-visual recording activities in the studio as well as outdoor shooting. The following major activities were undertaken by DEITI during the reporting period.

- 15 episodes of the '**Kaleidoscope Quiz**' competition for the students of Higher Secondary Schools in Goa in five languages, viz., Portuguese, Konkani, Hindi, French and Marathi for the students of Higher Secondary Schools in Goa were recorded in the studio (with four camera setup and online editing). This included Recording, Editing, Titling & production of DVD. This quiz competition was shown on local cable channel.
 - Recording & Post production of audio CD for Goa Sarva Shiksha Abhiyaan (Marmugoa Block).
 - The Workshop '**5 times and forever**' on Film making, organized by Film Goa in collaboration with Goa University, was recorded by DEITI. This workshop was for the students, working class people, and professionals from Goa as well as from other states. The workshop covered the training in almost all areas of film making like script writing, acting, editing, lighting, directing etc.
 - Video recording & Editing of various seminars, conferences organized by departments of Goa University. These guest lectures were archived in DVD.
 - DEITI actively supported a 3-day 'Community Radio Awareness' Consultation Conference (West Zone) held at Goa University which was organized by Community Radio Association, New Delhi.
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PH. D. AWARDEES FOR THE YEAR 2012 -2013

1	Ms. Sangeeta Jadhav	Microbiology	Prof. Saroj Bhosle	Biodegradation of triphenyltin by Marine bacteria.
2	Mr Prakash Naik	Konkani	Dr. Chandralekha D'Souza	Kathakar Chandrakant Keni: Ek Mulyankan
3	Ms. Shilpa R. Samant	Economics	Dr. P. K. Sudarsan	Determinants of Household Saving Motives: A Micro Level Study.
4	Mrs. Sushila Sawant Mendes,	History	Dr. N. Shyam Bhat	Luis de Menezes Branca (1878-1938) and the Emergence of Political Consciousness in Goa.
5	Ms. Padmaja Vijay Kamat	History	Self Guide	Ponda: A History of Temples.
6	Ms. Sindhu Mole B.	Marine Science	Dr. A. S. Unnikrishnan	Numerical Modelling of Tides and Storm Surges in Bay of Bengal.
7	Ms. Tonima Khivraj Kamat	Biotechnology	Dr. Savita Kerkar	A study of an antibacterial compound from salt pans of Goa.
8	Ms. Lactina Regina Gonsalves	Chemistry	Dr. V. M. S. Verenkar	Synthesis, Characterization and Solid State Studies of Co-Zn and Co-Ni Ferrites: A Comparative Study of the Bulk with the Nano.
9	Mr. Manoj Madhu Ibrampurkar	Earth Science	Prof. A. G. Chachadi	Hydrological and Hydrogeological Evaluation of Mhadei River Watershed-in Goa and Karnataka.
10	Ms. Puzy Athmaram Pavaskar,	Chemistry	Prof. A. V. Salker,	Synthesis and Catalytic Studies on Metal.
11	Mr. Girish V. S. Kundaikar	Physics	Prof. R. B. Tangsali	Electrical and Magnetic Properties of Nanoparticle Mn-Zn Ferrites Obtained from Novel method of Synthesis.
12	Ms. Rajashree Karmali	Chemistry	Dr. Vrinda Borkar	Metal Oxides for Environmental Friendly Application.
13	Ms. Divya Shridhar	Chemistry	Prof. V. P. Kamat	Secondary metabolites from selected marine invertebrates and their associated microorganisms

14	Ms. Smitha Govindas Bhandare	Commerce	Dr. K. B. Subhash	Tourism and its impact on Rural Entrepreneurship in Goa: An empirical study to promote village tourism in Goa.
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15	Ms. Janet Borges	Hindi	Prof. B. K. Sharma	Prabha Khetan ka upanyas sansar: Narivadee Vimarsha.
16	Ms. Suman Gad	Zoology	Dr. K. S. Shyama	Studies on the habitat ecology of gaur <i>Bos gaurus</i> (H. Smith) at Bhagvan Mahaveer Wildlife Sanctuary and Mollem National Park of the Western Ghats Goa.
17	Ms. Loreta Natalina Fernandes	Microbiology	Dr. N. B. Bhosle	Amino Acids in Marine Environment: Assessing the role of Bacteria.
18	Ms. Indira K. Shreedaran	Management	Prof. A. Sreekumar	Expected quality of work life and the impact of the gap between perception and expectation of QWL attributes on ECSQ and turnover intentions among hotw/ employees.
19	Ms. Maria Shamina D'Silva	Marine Science	Dr. A. C. Anil	Studies on Phytoplankton ecology with special reference to Harmful Algal Blooms.
20	Mr. Milind Mohan Naik	Microbiology	Prof. S. K. Dubey	Biological Characterization of Lead resistant bacteria from terrestrial and estuarine niches of Goa.
21	Ms. Lakshangy Chari	Microbiology	Dr. Sandeep Garg	Studies on <i>Pisolithus</i> sp.: Stress response, pigment production and mycorrhization with forestry trees of Goa.
22	Mr. Sagar Nayak	Marine Science	Dr. N. Ramaiah	<i>Vibrio harveyi</i> modulated gene expression in <i>Penaeus monodon</i> and <i>Fenneropenaeus indicus</i> .
23	Mr. Sudhir Kumar	Biotechnology	Dr. Urmila Barros	Isolation and studies of Marine Algae Lectins.

24	Mr. T. C. Vineesh	Marine Science	Dr. B. Nagender Nath	Deciphering the controls of tectonic and topographic features and depositional environment on regional variation of Minor, trace and rare - earth elements in polymetallic nodules from the central Indian Basin.
25	Ms. Trelia De Souza	Microbiology	Prof. Saroj Bhosle	Response of denitrifying bacteria from coastal estuarine ecosystem to hydro carbons.
26	Ms. Lina L. Fernandes	Marine Science	Prof. G. N. Nayak	Reconstructing pollution history from intertidal regions of estuaries along Mumbai Coast, India.
27	Ms. Nisha Kurian	Marine Science	Dr. V. V. Gopalakrishna	Variability of the near-surface thermohaline structure of the Lakshadweep Sea.
28	Ms. Niyati Kalangutkar	Marine Science	Dr. Sridhar D. Iyer	Petrology and petrochemistry of pumice from the central Indian Ocean basin.
29	Mr. M. Baskaran	Botany	Dr. S. Krishnan	Micropropagation, Biochemical and Histochemical Studies of <i>Garcinia Indica Choisy</i> (Koku).
30	Ms. Reshmi Vinayak	Marine Science	Dr. Anil Chatterji	Evaluation of anti-cancer activities in indian seaweeds.
31	Ms. Jyoti D. Vaingankar	Botany	Prof. B. F. Rodrigues	Studies on Arbuscular Mycorrhizal (AM) Fungi from Ornamental Flowering Plants commonly found in Goa.
32	Ms. Shweta Nayak,	Microbiology	Dr. Sarita Nazareth	Response of halophilic fungi to high salt concentration and heat stress.
33	Ms. Annie F. D'Souza	Botany	Dr. A. V. Veeresh	Algal studies on the diversity and distribution of blue green algae (BGA) from selected paddy field habitats of Goa.
34	Ms. Dilecta Colaco	Microbiology	Prof. Saroj Bhosle	Characterization of <i>Escherichia coli</i> and <i>Listeria</i> from milk at different levels of collection and processing in Goa.
35	Mrs. Nalini Kothuri	Commerce	Prof. Y. V. Reddy	Determinants of Bank Profitability Risk: A study of Select Banks in India.

36	Mr. Sanjay P. Sawant Dessai	Commerce	Dr. I. Bhanumurthy	Corporate Governance Practices and protection of Interest of Retail Investors.
37	Mr. Nilesh Anil Borde	Commerce	Prof. B. Ramesh	Shareholder value creation in Indian Companies: An Empirical Studies
38	Mr. Rajay R. Pawar	Konkani	Dr. Chandralekha D'Souza	Konkani Kavitentlem Goenchem Samajdarshan.
39	Ms. Sonia G. Naik	Chemistry	Prof. S. G. Tilve	Synthetic Studies in Heterocyclic Compounds.
40	Mr. Rajesh R. Parvatkar	Chemistry	Dr. C. G. Naik	Studies on Important Secondary Metabolites from Marine Organisms.
41	Mr. Ashish Prabhugaonkar	Botany	Prof. D. J. Bhat	Studies on Diversity and Activity of Microfungi associated with Indigenous Palms of Western Ghats, India
42	Mr. Sijin Kumar	Marine Science	Dr. B. Nagender Nath	Paleoceanographic investigations of sediments from the Andaman Sea.
43	Ms. Laju Michael	Marine Science	Dr. K. S. Krishna	Marine Geophysical Studies of the Conjugate Regions of the Bay of Bengal and Enderby Basin-Breakup and Evolution of Structure on Eastern Continental Margin of India.
44	Ms. Nutan Sangekar	Marine Science	Prof. H. B. Menon	Optical Characterization of Mandovi-Zuariestuaries to analyse the colour through remotely sensed data.
45	Mr. Subhash Naik	Commerce	Prof. Y. V. Yeddy	Determinants of Export Market Entry Decision making: A Study in the Indian Context.

LIST OF RANKERS (PG)

Sr. No.	Exam / Degree	1st Rank	2nd Rank	3rd Rank
1	M.A. English	Oliveira Nafisa	Dias Desiree Maria Savia	Naik Poorwa Rajiv
2	M. A. Hindi	Patil Madhuri Maruti	N. Dessai Sweta Chandrakant	-----
3	M.A. Marathi	Vengurlekar Dayanand Harishchandra	Devvari Manasi Milind	Mahale Pritha Premnath
4	M.A. Konkani	Fernandes Diffa Anifa	-----	-----
5	M.A. Psychology	Rodrigues Socorrina	D' Mello Tracy Ann Lourdes	Fernandes Gail Lucia
6	M.A. Economics	Kandolkar Sanjit Babu	-----	-----
7	M.A. Political Science	Naik Prachi Satyawan	Fernandes Pearl Claire	Tangmila Leisan
8	M.A. Sociology	Naik Ballavva Tukaram	Mendes Aniska Quiteria	-----
9	M.A. Geography	Silva Loba Durrel Francisca	Sawant Dessai Alpita Ashok	Sukadker Trupti Dilip
10	M.A. History	Costa Kim Ann	Fernandes Clarinda	Fernandes Velerina Crescencia
		----- --	Simepurushkar Manjita Mangaldas	-----
11	M.Sc. Electronics	Naik Laximikant Vishram	D'souza Wenzel Mauwin	Sawant Saish Bhisio
12	M.Sc. Geology	Sawant Brahmanand Narahari	Sharma Sheela Raju	Gaonkar Kishor Keshav
13	M.Sc. Physics	Arati Arjun Mansure	Alavani Bhargav	Bhat Prachi Pradeep
14	M.Sc. Organic Chemistry	Parit Shital Saba	Kenkre Supriya Nitin	Gaonkar Pramila Raghu
15	M.Sc. Inorganic Chemistry	Gauns Dessai Prajyoti Pandurang	Desai Pooja Kusta	Bhagat Sneha Fondo
16	M.Sc. Physical Chemistry	Chari Vishnu Rama	Albuquerque Johnross Virgil	Keni Veena Krishna
		----- --	-----	Shetye Madhavi Dattaram

17	M.Sc. Pharmaceutical Chemistry	Naik Ajay Gajanan	Gawas Karishma Krishna	Chodankar Pranaya Balkrishna
		-----	-----	Parab Sneha Santosh
18	M.Sc. Mathematics	Bandekar Aradhana Santosh	Godinho Aloysius Querobino	-----
19	M.Sc. Marine Biotechnology	Afreen Hussain	Kapagunta Chandrika Venketesh	Prantick Patra
20	M.Sc. Microbiology	Rodrigues Michelle D.	Kalangutkar Ankita Suresh	Kunkaliker Sunara Sagun
21	M.Sc. Zoology	Banu Afreen	Basha Shaheena M Khadar	Fernandes Alisha Eufemia
22	M.Sc. Botany	Fernandes Francis Xavier	Tari Shreeveni Shrikrishna	Chodankar Vipul Vaikunth
23	M.Sc. Marine Science	Aabha Satish Despande	Ankita Ankush Padelkar	Gadkar Nikhita Sudesh
24	M.Sc. (Information Technology)	Castellino Colenso	Shet Parkar Grahesh Rajendra	Pires Ashwin
		----- --	-----	Salkar Tanvi Uday
25	M.Com.	Naik Deepali Gurudas	Naik Dikshit	Rebello Savina Annie
26	M.C.A	Fernandes Andrea Anna	Joshi Prashant Pradeep	Sunil Kumar
27	M.B.A.(F.S.)	De Sa Tahira Mariel	Gore Arpita Anil	Harmalkar Omkar K.
28	M.B.A.	R. Sivadas	James Astrid Francisca	Mahale Jailaxmi Vinayak
29	LL.B. (Hons)	Naik Pranoy Chandrashekar	Sinai Khandeparkar Bhargav Mahendra	Raikar Goutami Govind
		-----	-----	Shirodkar Neha Anil
30	LL.M.	Parab Soniya Balkrishna	-----	-----
31	B.G.L	Sneha Anil Kumar	Asukar Nisha	Phadte Gautami Gajanan
32	B.S.W.	Lobato De Faria Joya Maria Luiza	Narvekar Priyanka Pramod	Shinde Rashmi Umesh
33	B.Com	Miranda Bryna	Rai Shilpa	Rodrigues Linera
34	B.A.	Aguiar Ellora Maria	Bandiwad Neha	Mashelkar Disha Narayan
35	B.Sc.	D'Souza Minoshka Maria	D'Souza Miracle Talita	Viegas Jeffery Lauro
36	B.Ed.	Cardozo Lia	Shah Kifah Naz	Da Costa Lorraine

				Francis
37	B.P.Ed.	Mandrekar Sugitesh Subhash	Phadte Khiloni Ramesh	Faria Precy Vailankani
38	B.Sc. (Home Science)	Mondkar Ridhima Dilip	Kenni Niti Sanjay	Fernandes Suzan
39	B.D.S	Kakodker Mangesh Ashok	Parab Manjita Madhukar	Mukherjee Anupama
40	B.F.A (Applied Art)	Rebello Malcolm Santan	Soares Jeanine Paula	-----
41	B.F.A. (Painting)	Pradhan Khushboo Iqbal	Pawar Sonam Manjunath	-----
42	B.Pharm.	Kudchadkar Chandra Vijay	Shetgaonkar Sradha	Kalangutkar Pooja Laxman
		Lavande Ankita Avinash	-----	-----
43	B.Arch	Jalan Raghav	Alan Shadap	Akhil P.
		-----	-----	Ambrose Garnett Kharkongor
44	B.E. (Civil)	Patil Richa Tatoba	Kamat Vipul Vinod	Chakurkar Shraddha Eaknath
45	B.E. (Mechanical)	Dipti Deepak Chaphekar	Abhishek Ramdev Sharma	Merva Ishwar Shivaji
46	B.E. (Electrical & Electronics)	Naik Sanjivani Bharat	M. Prakash Reddy	Dias Maria Fleur Domnica
47	B.E. (E.T.C)	Khushbu M. Shewakramani	De Natasha Sibendu	Shetye Sushant Suhas
48	B.E. (Computer)	Kamat Ambika Rajan	K. Azrekar Vaibhavlaxmi B.	Vivek Kumar Singh Rana
49	B.E. (Information Technology)	Prema	Dessai Swatej Ganpati	Madhuri Digambar Shewale
50	M.E. (Information Technology)	Lal Mily	Wakchaware Shraddha Pradeep	George Livya
51	M.E. (E.T.C.) Microelectronics	A. Prajwalita	Nargundkar Sneha Sharatchandra	Kanekar Ankita Ashok,
52	M.B.B.S	Mazumdar Pallabi	Narkar Rukma Rajendra	Padte Nandini Kedar
53	B.A.M.S	Sumesh S. Pai	Parkar Kaustubh Kamlakant,	Shrinidh Nair
54	B.H.M.S.	Prabhu Anupa Ankush,	Barretto Felisha	Cardozo Filomena Andrea
55	B. Sc. (Nursing)	Furtado Steffy Violet	Viegas Lucilia Sylvia	De Souza Audrey Aninha
		-----	-----	Araujo Remina

56	M. Pharm. (Quality Assurance)	Korde Pooja Gurudas	Palekar Neema Gajanan	D'Souza Wesley Zeferino
		Prabhudesai Gandha Purnanand	-----	-----
58	M. Pharm. (Pharmacology)	Mendonca Chernoll Manuel	Pol Gauravi Ashok,	Prabhu Dessai Sayee Vinayak,
59	M.Pharm (Pharmacognosy)	Tari Prathana Umakant	Pednekar Apurva Ramkrishna	Surlikar Poonam Maruti
60	M.Sc. (Hydrography)	LT.CDR.Vishnu Vardhan M.	LT.CDR. Kumar Dhiraj	LT. CDR. D. Sesodia
61	M.E. (Power & Energy Syst Eng)	Dias Noah	Kuncoliencar Shalini Alias Tanvi S.S.	Pereira Maria Celfa
62	M.E. (E.T.C.) E.C.I.	Cotta Jillian Maria	Savardekar Purni Raghuvver	Chanekar Shweta Sargam alias Pangam Kanchan
63	M.E. (Computer Science & Engineering)	Kamat Nachiket Bhagwant	Menezes Sherica Lavinia	Sawant Shreedatta Subhash
64	M.Pharm (Pharmaceutical Chemistry)	Tari Prasad Ramakant,	Fernandes Jairus Domnic	Reis Maria De Graca Gema
65	B.D.S.	Sukthanker Neha Sanjay	Bandodkar Siddharth Datta	Khan Fouzia

PART: 4

GENERAL ADMINISTRATION

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:

1. Construction of Women's hostel (phase-I) and extension on second floor.
2. Health centre.
3. Hostel for Academic Staff College, Ground floor (phase I).
4. Renovation of Boys Hostel wing 'B'.
5. Renovation for Intergrated Management Studies.

The following works are in progress:

- Construction of 'D' type quarters. (Alternate accommodation)
- Construction of Auditorium.
- Renovation of Boys Hostel wing (A).
- Construction of Gymnasium
- Hostel of ASC (phase II)
- Construction of store rooms for Sports Building.

The following works being executed by GSIDC

- 1) Construction of Science faculty block - E
- 2) Bio-incubator

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

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.

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 150542 books and 9480 volumes of bound journals. The library subscribes to 419 periodicals out of which 141 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 thorough 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 suing 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 INONET 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 Prograame, 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 theses 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

Goa University Library conducted a short term course in Literature Searching and Academic Writing in collaboration with the UGC Academic Staff College, Goa University. One workshop on Web-Scale Discover Tools was conducted in the library premises. Regular Orientation sessions were given to the fresh students of the University.

Students Sports Activities
INTER COLLEGIATE CHAMPIONSHIP RESULTS 2012-2013

Sr. No	Event	Men		Women	
		Winners	Runners-Up	Winners	Runners-Up
01	Badminton	S. Caculo	S.S.Dempo	P.G.G.U	Dhempe
02	Table Tennis	Shree Damodar	P.C.C.E.	P.C.C.E.	G.E.C.
03	Judo	Rosary	G. C. Sanquelim.	Rosary	G. C. Sanquelim.
04	Chess	G.E.C.	P.C.C.E.	--	--
05	Cross Country	Rosary	Shree Mallikarjun	G.C. Quepem	Shree Mallikarjun
06	Weight Lifting	D.M's	Rosary & Shree Damodar	--	--
07	Power Lifting	Rosary	D.M's	--	--
08	Best physique	Arts	V.M.Salgaocar & Rosary	--	--
09	Football	Don Bosco (Engg)	Dhempe	St. Xavier's	Carmel
10	Tennikoit	--	--	Rosary	Shree Mallikarjun
11	Cycling	Rosary	Chowgule	--	--
12	Basketball	St. Xavier's	M.E.S	St. Xavier's	Rosary
13	Swimming	S. Caculo & G.V.M's	--	St. Xavier's	Arts,DM's & Dhempe
14	Kabaddi	G. C. Pernem.	G.V.M's	G. C. Pernem.	G.V.M's
15	Tennis	Shree Damodar	Chowgule	--	--
16	Athletics	Shree Mallikarjun	St. Xavier's	Rosary	D.M's
17	Handball	Chowgule	St. Xavier's	Shree Damodar	Rosary
18	Kho-Kho	Shree Mallikarjun	Shree Damodar	G.C.Quepem	Shree Mallikarjun
19	Volleyball	P.E.S.	G.C.Sanquelim	Fr. Agnel	St. Xavier's
20	Hockey	St. Xavier's	S.S.Dempo	St. Xavier's	Rosary
21	Cricket	Don Bosco, Panaji	V.M.Salgaocar	St. Xavier's	P.E.S.
22	Baseball	G.C.Khandola	S. Caculo	St. Xavier's	G.V.M's
23	Taekwondo	Shree Damodar	G. C. Borda	Shree Damodar	St. Xavier's

Performance at Inter University Championships 2012-13

Events	Zone	Venue	Performance
Aquatics for men	All India	Kolkata	Participation
Aquatics for women	All India	Kolkata	1 M Diving Gold
Cross Country for men	All India	Nagpur	Participation
Cross Country for women	All India	Nagpur	Participation
Hockey for men	West Zone	Jaipur	Lost in first round
Volleyball for men	West Zone	Patan	Won two rounds
Cricket for men	West Zone	Vadodara	Won three rounds
Kho Kho for men	West Zone	Mumbai	Lost in first round
Taekwondo for men	All India	Chandigarh	Won two round (Individual)
Taekwondo for women	All India	Chandigarh	Won in rounds (Individual)
Baseball for men	All India	Delhi	Lost in quarters
Football for women	West Zone	Kolhapur	Lost in All India qualifying match.

St. Xaviers College of Arts, Science and Commerce, Mapusa was awarded the Best College in Sports for the year 2012-2013.

Ms. Sushmeeta Vasta of Shree Damodar College of Commerce and Economics, Margao was awarded the Best Sportswoman. **Mr. Aniket Kerkar** of DM's of Arts, Science and Commerce, Assagao was awarded as the Best Sportsman.

The winners were felicitated on 30 July 2013, on the occasion of the Foundation Day of Goa University by the Vice Chancellor, Dr. S. R. Shetye in the Presence of Prof. V.P. Kamat (Registrar) and Dr. Anupam Saraph (Innovator and Polymath).

Names of Players who represented Goa University at the Inter University Championships 2012-2013

Sr. No.	Event	Names of Players and officials
1	Swimming	<p>Men: Uttam Sinha. Women: Sushmeeta Vasta. Officials: Ms. Sandha Vasta, Mr. Sudhakar Naik.</p>
2	Baseball	<p>Men: Amey Shetye, Sai Naik, Sachin Dessai, Sudesh Satarkar, Durgesh Prabhu Gaonkar, Manohar Gaonkar, Sahil Vaigankar, Vinesh Satarkar, Devanand Gaude, Laxman Prabhudesai, Sagar Rane, Nikesh Prabhu, Nilesh Gaonkar, Ganesh Sudhir, Sunny Gaude. Officials: Mr. Kailash Gaonkar, Mr. Savio Leitao.</p>
3	Cricket	<p>Men: Achit Shigwan, Kedhar Naik, Govind Prasad, Shubham Banaulikar, Ashutosh Natekar, Sakharam Narulkar, Shiddesh Govekar, Saini Sunny, Akhil Shetye, Asif Saudagar, Sunny Kanekar, Vishwajeet Gaonkar, Shivam Mapsekar, Jayant Satodkar, Pravin Gawas, Rupesh Asgaonkar. Officials: Mr. Anil Arolkar, Mr. Shishri Divkar.</p>
4	Hockey	<p>Men: Jelies Gracias, Sanford Remedios, Prakesh Gaonkar, Hansel Fernandes, Robert Gomes, Sadam Nawar, Aadarsh Kankonkar, Anthony Frazer Po, Sunny Gaonkar, Princelee Britto, Jolwyn Fernandes, Praful Maghaiya, Elroy Pinto, Agnelo Cabral, Bhavesh Sawant, Gabriel Almeida. Officials: Mr. Victor Albuquerque, Mr. Sam Braganza.</p>
5	Football	<p>Women: Abigail Alvares, Kisny Carneiro, Ninoshka Luis, Ageema Rodrigues, Rovita Fernandes, Precy Faria, Akshata Gawas, Sheral D'Mello, Valerie Carvalho, Preeti Shindhe, Valencia Braganza, Angel De Braganza, Melisa Pereira, Rekha Bhale, Malvita Mascernhas, Fatima Carvalho, Bindiya Ohdar, Hezal Gonsalves. Officials: Mr. Fausto Lobo, Ms. Vimal Parab.</p>
6	Kho Kho	<p>Men: Tanjim Nadaf, Sidharth Naik, Ramdas Varak, Arnav Phaldesai, Sanjay Gaonkar, Aditya Velip, Nilesh Gaonkar, Ravikant Patekar, Ranjit Nishad, Pedru Kalpal, Nilesh Vaghekar, Sunil Vagekar. Officials: Mr. Caitano Clemento, Mr. Ramlal Vernekar.</p>

7	Taekwondo	<p>Men: Salman Shaikh, Sudhir Kumar, Mehendra Ananthu, Vishal Naik, Sagar Palconda, Stephen Rodrigues, Shashi Kumar, Siddhesh Naik, Women: Ujeeta Paradkar, Deepali Gaikwad, Rita Dalai, Vaibhavi Chodankar, Kenisha Menezes. Officials: Mr. Theophile Lowe, Mr. Sudhakar Naik.</p>
8	Volleyball	<p>Men: Siddesh Gawas, Sadanand Naik, Aclinton Fernandes, Sidhivinay Gad, Aaron Pereira, Shubham Dhawaskar, Ravji Naik, Ritesh Mandrekar, Rajshekhar Naik, Atikesh Khedekar, Ritesh Zarmekar, Gouresh Naik. Official: Mr. Avelino Pereira.</p>
9	Cross Country	<p>Men: Vishal Velip, Dilip Velip, Sunil Velip, Gaonkar Sandesh, Michael Jabarson. Women: Sheshikala Gaonkar, Kavina Gomes, Velip Karisma, Dezmina D'Costa, Nitisha Gaonkar, Jyoti Velip. Officials: Ms. Venisha Coutinho, Mr. Savio Leitao, Dr. Francis Lobo.</p>

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 2012-13, the following activities were undertaken:

- 1) Election for the Executive Body of Goa University Students Council for the year 2012-13 was held on 31 August 2012.
 - 2) Election for the Post Graduate Students Union of Goa University for the Year 2012-13 was held on 31 October 2013.
 - 3) Students Aid Fund Financial Assistance was given to 130 Post Graduate Students under this scheme to meet their Educational expenses.
 - 4) Plateaunica 2012-13 was organised from 25-27 February 2013 at the Silver Jubilee Hall, Goa University. The Plateaunica was organised 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.
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Placement Cell

Goa University has established a Placement Cell which acts as an interface between the industry and the students. The objectives of the Cell are as below:

- To disseminate information on placement avenues in academia/industry/ research institutions.
- To act as an interface between industry and the students and facilitate industry-institution linkages.
- To facilitate campus-based placement activity.

The Cell facilitates placement activity both on and off the campus and invites industrial/commercial establishments to avail the services of the Cell for campus placements.

U. G. C. Academic Staff College

The UGC-Academic Staff College was established in the year 1987 with cent percent financial assistance from the University Grants Commission. For the last 25 years it has conducted 86 Orientation courses for the benefit of thousands of teachers. It has also conducted many refresher Courses in various branches of Science, Arts, Social Sciences, Commerce, Languages, etc., for the benefit of teachers.

Moreover, some special programs/workshops have also been conducted. The Academic Staff College regularly conducts a 28 days Orientation course and 21 days Refresher Course. Thus, the Academic Staff College, Goa University has distinguished itself with excellent performance.

The UGC-Academic Staff College of the Goa University aims at maintaining the top most status at the National level, not only in terms of number of programmes organized but also in terms of quality, variety, usability, viability, etc. To accomplish this task, training in Infnbnet-Infonet, EDUSAT exposure, e-learning and e-content developments are provided to the participants. Course Materials to the participants are given in the form of CD in addition to Xerox copies of Lecture materials and also hosted in our website.

Mission of the Academic Staff College happens to be value based, quality conscious, innovative, inclusive and to emerge as the Best Faculty Training Centre of the nation by providing high quality training in teaching and learning for the benefit of University and College Teachers, efficient office management for Administrative staff and Research Methodology for Scholars

- To impart domain knowledge, teaching and assessment skills for the trainee teachers and research scholars.
- To offer faculty training programmes in various recent academic disciplines
- To orient how to teach fundamentals and to provide application experience
- To emerge as an action – research centre for the use of ICT for Teaching and Learning, Curriculum Development, Competency Mapping of various cadres at different levels of Higher Education Institutions and Learner Assessment.
- To provide equal opportunities to women teachers and research scholars, and minorities to become equal partners in meeting the scientific and technological manpower requirement of the nation.
- To emerge as a complete training and development centre for the Teachers, non-teaching staff and Officers of the University.

Vision of the Academic Staff College is to convert Indian Universities as Growth Engines of Social and Economic Development of the nation. We strongly believe that this can be achieved by producing high quality manpower to teach and counsel students and to conduct research in the Higher Education Institutions. Our Academic Staff College trains faculty as value driven, knowledge focused, technology savvy and quality conscious individuals.

As far as the quality is concerned, Academic Staff College of Goa University shall identify and train Higher Education Teachers, Research Scholars and Administrative Staff in various

knowledge areas and skills. We shall also establish an effective learning environment in order to acquire a proper mind-set so that our Teachers, Research Scholars and Administrative staff emerge as competent professionals. This will be measured by the efforts taken to retain our manpower; programme innovations; ensuring equal opportunities; exploiting ICT technology for quality sustenance and cost effectiveness; financial management; integration with similar institutions; transparency in our functions and maintaining ethical standards. We subject ourselves to both internal and external quality assessment.

Refresher Courses / Orientation Programmes / S.T.C conducted in 2012-13

<u>Courses Conducted</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
85 th Orientation Programme 15-01-2013 to 12-02-2013	23	13	36
Refresher Course in Hindi 22-02-2013 to 14-03-2013	25	11	36
Refresher Course in Economics 28-03-2013 to 18-04-2013	27	08	35
One Day Interaction Program – English 22-03-2013	07	46	53

Health Centre

The Health Centre at Goa University caters to the medical needs of the students, teachers, staff members and their families residing on the campus, as well as to patients from the adjoining villages.

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.

The Health Centre organized a Medical Screening Camp in association with Manipal Hospitals during October-November 2012 over a period of 5 days. Around 200 staff and students attended the tests carried out were height, weight, pulse, respiratory rate, blood pressure, random blood sugar and ECG. Those found having diabetes, hypertension and heart diseases were followed up.

College Development Council

I. PROPOSALS FORWARDED TO UGC:

A. MINOR/MAJOR RESEARCH PROJECTS OF UGC SCHEME:

1. **Smt. Parvatibai Chowgule College of Arts & Science, Margao, Goa.**
 - **N. N. Sawant**, 'Goa: Socio-Cultural Transformation and Impact on the Society'.
2. **Narayan Zantye College of Commerce, Bicholim, Goa.**
 - **Jhimli Adhikari**, 'Data Mining and Knowledge Discovery'
3. **Fr. Agnel College of Arts and Commerce, Pilar Goa.**
 - **Soraya Rebelo**, 'A Study of Disaster Management in the Educational Institutions in Goa'
4. **P. E. S.'s Shri Ravi S. Naik College of Arts & Science, Farmagudi, Ponda, Goa.**
 - **Aditi M. Rane**, 'Political Leadership in Goa: Changing Leadership Patterns (1961-2011)'
 - **Badrudin**, 'South East Asian Studies'
5. **Vidya Vikas Mandal's Shree Damodar College of Commerce & Economics, Margao, Goa.**
 - **Manoj S. Kamat**, 'What Determines Indian Stock Market Activity: Fundamentals or Bubbles? Qualitative and Quantitative Analysis'.
6. **Dhempe College of Arts & Science, Miramar, Panaji, Goa 403 001.**
 - **Vrinda Borker and Varsha D. Virginkar**, 'Synthesis and characterisation of single crystals of organo metallic compounds'
7. **Narayan Zantye College of Commerce, Industrial Estate, Vathadev, Sarvan, Bicholim, Goa 403 529**
 - **K. G. Sankaranarayanan**, 'Employee Downsizing: Implications of VRS on Public Sector Banks in India'.
8. **G. V. M's G. G. Poy Raiturcar College of Commerce & Economics, Ponda, Goa 403 401**
 - **Dimple V. Paul**, 'Design and Implementation of Algorithms for Efficient Handling of University Examinations System'.
 - **Gulab A. Borkar**, 'Towards Zero Waste – Evolving a model for sustainable solid waste management for Goa state'.
 - **Meera R. Mayekar**, 'The Search for Social Entrepreneurship: Can University Act as Social Entrepreneurship Driver – A study'.

- **Anushree Bhandari**, 'A Study of Market share of different Private Brands in Garments Marketed by Organized Retailers'.
- **Sarvesha Dhaimodkar**, 'The Role and Financial Performance of State Financial Corporations (SFCS) of India with special reference to Economics Development Corporation (EDC) Ltd., Goa'.

B. FACULTY IMPROVEMENT PROGRAMME

- **Sulaxana R. Vernekar**, Goa Vidyaprasarak Mandal's, Gopal Govind Poy Raiturcar College of Commerce and Economics, Ponda, Goa.
- **Sameena S. F. Falleiro**, Smt. Parvatibai Chowgule College of Arts and Science, Margao, Goa.
- **Purnanand G. Chari**, Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts and Commerce, Delem, Canacona, Goa.
- **Reji George**, Fr. Agnel College of Arts and Commerce, Pilar, Goa.
- **Meenakshi Bawa**, Murgaon Education Society's College of Arts and Commerce, Zuarinagar, Vasco, Goa.
- **Umesh Babaji Gawas**, D. M.'s VNS Bandekar College of Arts, Science and Commerce, Assagao, Bardez, Goa.
- **Subrahmanya Bhat K. M., V. V. M.'s** Shree Damodar College of Commerce and Economics, Margao, Goa.
- **Shobha U. Karekar**, Saraswat Vidyalaya's, Sridora Caculo College of Commerce & Management Studies, Khorlim, Mapusa Goa 403 507.
- **Mario J. D'Souza**, Fr. Agnel College of Arts and Commerce, Pilar, Goa 403 203.
- **Arvind N. Haldankar**, Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts and Commerce, Delem, Canacona, Goa.
- **Namdev Gawas**, Govt. College of Arts & Science, Virnoda, Pernem, Goa 403 512.
- **Aparna P. Lolayekar**, D.M.'s VNS Bandekar College of Arts, Science and Commerce, Assagao, Bardez, Goa.
- **Lira M. Gama**, V.V.M.'s Shree Damodar College of Commerce & Economics, Margao, Goa.
- **Lina L. Kamat**, V.V.M.'s Shree Damodar College of Commerce & Economics, Margao, Goa.
- **Shami Y. Kunde**, V.V.M.'s Shree Damodar College of Commerce & Economics, Margao, Goa.
- **Hanumant C. Chopdekar**, Parvatibai Chowgule College of Arts and Science, P.O. Fatorda, Margao, Goa 403 602.
- **Nanda R. Misal Nee Rajashree R. Desai**, Parvatibai Chowgule College of Arts and Science, P.O. Fatorda, Margao, Goa 403 602.
- **Bhushan Bhawe**, P.E.S.'s Shri Ravi S. Naik College of Arts & Science, P.O.Box No.3, Farmagudi, Ponda, Goa 403 401.
- **D'Mello Carmelita Anita**, St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa 403 507.
- **Domnick Nelson Lobo**, St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa 403 507.

- **Vidya R. Dalvi**, Govt. College of Arts, Science & Commerce, Quepem, Goa.
- **Nanda R. Misal Nee Rajashree R. Desai**, Parvatibai Chowgule College of Arts and Science, P.O. Fatorda, Margao, Goa 403 602.
- **Sonal Thakker**, Murgaoon Education Society's College of Arts and Commerce, Zuarinagar, Vasco, Goa 403 272.
- **Radhamani Divakar**, Govt. College of Arts, Science & Commerce, Khandola, Marcela, Goa.
- **Fatima Souza alias Maria Fatima De Souza**, Smt. Parvatibai Chowgule College of Arts and Science, P.O. Fatorda, Margao, Goa 403 602.

C. PROPOSAL FOR ORGANISING NATIONAL/INTERNATIONAL SEMINARS/ CONFERENCES:

- Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts and Commerce, Delem, Canacona, Goa, '**Indian Economy a Journey since Independence and Future Prospects**'.
- Murgaoon Education Society's College of Arts and Commerce, Zuarinagar, Goa, '**Spiritualism and its influence on moral value systems across different age groups**', '**The Changing Psyche of the Adolescent in the 21st Century**', **National level Seminar on "FDI In Retail In India"**.
- St. Xavier's College of Arts, Science & Commerce, Mapusa, Bardez, Goa, '**Bioinformatics & its Applications**'.
- Vidya Vikas Mandal's Shree Damodar College of Commerce & Economics, Comba, Margao, Goa, '**Trade, Finance and Investment in the Indian Context**'.
- G. V. M's G. G. Poy Raiturcar College of Commerce & Economics, Ponda, Goa - 403 401. '**National level Seminar on 'Mathematics and Its Applications**'.
- Parvatibai Chowgule College of Arts and Science, Gogol, Margao, Goa - 403 601. '**Advances in Colloid Chemistry,**' **National level Conference on 'Plant & Environmental Sciences**'.
- P. E. S.'s Shri Ravi S. Naik College of Arts & Science, Farmagudi, Ponda, Goa. '**Human Rights - Goa, India and the World: Major Issues and Initiates**'.

D. CAREER ORIENTED COURSES:

- S. S. Dempo College of Commerce & Economics, Serra Building,, Near All India Radio, Altinho, Panaji, Goa, 403 001, 'Career Oriented Programme at First Degree Level in Universities and Colleges..

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

- **Mrs. Gulab A. Borkar**, G. V. M's Gopal Govind Poy Raiturcar College of Commerce and Economics, Post Box No. 102, Farmagudi, Ponda, Goa, 403 401, 'Travel Grants'.

F. COLLEGES INCLUDED UNDER Section 2(f) and 12(B)

- Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts and Commerce, Delem, Canacona, Goa.

G. ADDITIONAL GRANTS:

- D. M.'s VNS Bandekar College of Arts, Science and Commerce, Assagao, Bardez, Goa.
 - Carmel College of Arts, Science and Commerce for Women, Nuvem, Salcete, Goa.
 - Cuncolim Educational Society's College of Arts and Commerce, Cuncolim, Salcete, Goa.
 - Shree Damodar College of Commerce & Economics, Comba, Margao, Goa.
 - S. S. Dempo College of Commerce & Economics, Altinho, Panaji, Goa.
 - Dhempe College of Arts & Science, Miramar, Panaji, Goa.
 - Fr. Agnel College of Arts and Commerce, Pilar, Goa.
 - Government College of Arts, science & Commerce, Sanquelim, Goa.
 - Government College of Arts & Commerce, Virnoda, Pernem, Goa.
 - Government College of Arts, Science & Commerce, Quepem, Goa.
 - Government College of Arts, science & Commerce, Khandola, Marcela, Goa.
 - G. V. M.'s Gopal Govind Poy Raiturcar College of Commerce & Economics, Farmagudi, Ponda, Goa.
 - G. V. M.'s Dr. Dada Vaidya College of Education, Farmagudi, Ponda, Goa.
 - V. V. M.'s G.R. Kare College of Law, Comba, Margao, Goa.
 - Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts & Commerce, Delem, Canacona, Goa.
 - M. E. S. College of Arts and Commerce, Zuarinagar, Goa.
 - Narayan Zantye College of Commerce, Bicholim, Goa.
 - P. E. S.'s Shri Ravi S. Naik College of Arts & Science, Farmagudi, Ponda, Goa.
 - Rosary College of Commerce & Arts, Navelim, Goa.
 - V. M. Salgaocar College of Law, Miramar, Panaji, Goa.
 - Saraswat Vidyalaya's Sridora Caculo College of Commerce & Management Studies, Telang Nagar, Mapusa, Goa.
 - St. Xavier's College of Arts, Science & Commerce, Mapusa, Goa.
 - Smt. Parvatibai Chowgule College of Arts and Science, Margao, Goa.
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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 is a Four year old hostel on the Goa university campus. This hostel 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 Gymnasium, 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

A. General Education Colleges

1. Dhempe College of Arts and 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 and Economics, Altinho, Panaji
5. Carmel College for Women, Nuvem, Salcete
6. M. E. S's College of Arts and Commerce, Zuarinagar
7. Shree Damodar College of Commerce and 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 and Economics, Ponda
10. P. E. S.'s Shri Ravi S. Naik College of Arts and Science, Ponda
11. Cuncolim Education Society's College of Arts and Commerce, Cuncolim
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 and Commerce, Navelim
17. Saraswat Vidyalaya Society's 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, Borim, Ponda

B. Professional Colleges

25. GSS's Don Bosco College, Panaji
 26. Goa College of Pharmacy, Panaji
 27. Goa Engineering College, Farmagudi, Goa
 28. Nirmala Institute of Education, Altinho, Panaji
 29. Goa College of Fine Art, Altinho, Panaji
 30. Mahadeorao Salgaocar College of Law, Miramar, Panaji
 31. Govind Ramnath Kare College of Law, Margao
 32. Goa Dental College, Bambolim
 33. College of Architecture, Altinho, Panaji
 34. Goa College of Music, Altinho, Panaji
 35. Institute of Nursing Education, Bambolim
 36. Goa Vidyaprasarak Mandal's College of Education, Ponda
 37. Bhartiya Sanskriti Prabodhini's Gomantak Ayurveda Mahavidyalaya and Research Centre, Shiroda
 38. Goa Medical College, Bambolim
 39. Shivgram Education Society's Homoeopathic College and Hospital, Shiroda
 40. National Hydrographic School, Vasco-da-Gama
 41. Padre Conceicao College of Engineering, Verna
 42. Vidya Vikas Mandal's Institute of Management, Training and Research, Margao
 43. INS Hamla, Marve, Malad (W), Mumbai
 44. Shree Rayeshwar Institute of Engineering and Information Technology, Shiroda
 45. P. E. S. College of Education, Ponda
 46. Victor Medical and Research Foundation's College of Nursing, Margao
 47. Vrundavan Institute of Nursing Education, Porvorim
 48. Institute of Psychiatry and 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
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A. GENERAL EDUCATION COLLEGES

5.1: DCT's Dhempe College of Arts and Science, Miramar

Year of Establishment: June 1962.

College Address: DCTs' Dhempe College of Arts & Science, Miramar, Panaji, Goa 403 001.

Principal's Details:

- **Name:** Dr.Yasmin Modassir
- **Contact no.:** 0832-2462376
- **E-mail:** mzml@rediffmail.com

College website: www.dhempecollege.edu.in

Mission and Vision Statement:

Mission: To evolve a community of people moving creatively in a spirit of cooperation developing analytical minds and pertinent skills, to share responsibility in enriching the web of life.

Vision: We look for a society where education means Accountability, Intellectual curiosity, unity in diversity and social justice.

Courses offered: Bachelor of Science, Bachelor of Arts, Post Graduate Diploma in Journalism and Mass Communication, Certificate course in Analytical Chemistry.

Sanctioned and filled Strength: 801

Faculty strength: 39

Achievements of the College: College got ISO 9001-2008 QMS Certification.

Sponsored Research Projects sanctioned between June 2012 and May 2013:

- **Dr. Vrinda Borkar**, 'Synthesis and Characterization of a single crystals of Transition and rare earth metal complexes', 18 February 2013, 2 years, UGC, Rs. 0.70 Lakhs.

Completed projects during June 2012 - May 2013:

- **Dr. Yasmin Modassir**, 'Environmental Impact Assessment of Ground water Quality of Mhadei river basin with respect to Microbiological, Chemical and Geological parameters', 2 years, UGC Major project, Rs 7.918 Lakhs.
- **Dr. Yasmin Modassir**, 'An awareness Programme of solid waste handling in Tiswadi Taluka, Goa', 2 years, UGC Minor Project, Rs 0.93 Lakhs.
- **Dr. Vaishali Naik**, 'A comparative study of women's language in Hindi and Konkani', 2 years, UGC Minor Project, Rs 1.10 Lakhs.
- **Dr. Annie Rajan**, 'Design and Experimental study of a consensus clustering', 2 years, UGC Minor Project, Rs 0.70 Lakhs.

- **Dr. Wendy Manuel**, 'Interaction strategies to reduce prejudice in adolescents', 2 years, UGC Minor Project, Rs 0.60 Lakhs.
- **Ms. Anju Sakhardande**, 'The folk tradition of name taking ceremony', 2 years, UGC Minor Project, Rs 0.70 Lakhs.
- **Mr. Vinayak Bapat**, 'A critical study of Marathi novels after 1990', 2 years, UGC Minor Project, Rs 0.80 Lakhs.

Ongoing projects during June 2012- May 3013

- **Ms. Deepa Audi**, Synthesis & Characterization of single metal & mixed metal ferrites, 2 years, UGC Minor Project, Rs 1. 15 Lakhs.
- **Ms. Susan Miranda**, Application of Industrial Mathematics, 2 years, UGC Minor Project, Rs 1.66 Lakhs.
- **Ms. Clarinda Dias**, The Goan-Canadian sensibility in the novels of Ben Antao, 2 years, UGC Minor Project, Rs 0.60 Lakhs.

Conferences/Workshops organized:

- Department of Psychology organized UGC sponsored three day State Level Workshop 'Teaching Children with Learning disabilities'.
- History Forum organized Two day National level Seminar 'Goan Heritage'.
- Department of Physics organised one day State Level Workshop on 'Experimental Physics'.

Publications:	Foreign	Indian
Research papers in Journals	02	02
In edited books	-	01

Papers presented in Conferences/Seminars/Workshops:

Abroad: 02 **Within India:** 09 **Within Goa:** 05

Number of teachers who obtained research degree during the year: Ph. D. 02

5.2: Parvatibai Chowgule College of Arts and Science, Margao

Year of Establishment: 1962.

College Address: Gogol, Margao, Goa 403 601.

Principal's Details:

- **Name:** Dr. R. V. Gaonkar
- **Contact No:** 91 (0832) 2759504
- **E-mail:** 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 positions: 54.

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

- **Mr. Hanumant Chopdekar**, Department of Konkani and **Mrs. Sameena Falleiro**, Department of Computer Science are awarded teachers fellowship to complete their Ph.D programme by the University Grants Commission (UGC).

Achievements of the College:

- The College has achieved 100% result at TYBA and 96.80% result at TYBSc for Semester VI Examination held in April 2013.

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Dr. Nandkumar Sawant**, 'Tourism and Socio-Cultural Impacts: A study of selected Tourist Destinations of Salcete, Goa', 2012-13, ICSSR, New Delhi, Minor Project, Rs 2.08 Lakhs.
- **Dr. Nandkumar Sawant**, 'Goa: Socio-Cultural Transformations and Adaptations in the Post Liberation Era', 2012-13, UGC, New Delhi, Minor Project, Rs 5.116 Lakhs.

Ongoing projects/Completed during June 2012 – May 2013:

- **Dr. G. K. Naik** (co-investigator with faculty of Goa University), 'Optimisation of Nitrate triacitite Precursor Method for Obtaining Nano Particles Mn Xu Ferite Material and Development of High Performance Micro Structure based Meta Material for Electromagnetic Applications', 2010-11, DST, Major Project, Rs 2.0 crores.
- **Dr. S. Sankhalkar**, 'Nonenzymatic antioxidant enzyme protection in rice seedlings grown in saline Khazan fields in Goa and its comparison with salt sensitive rice variety', 3 Years, DST, Major Project, Rs 13.00 Lakhs.
- **Dr. U. Masur**, 'Efficacy of Extracts of *Dysoxylum Malabaricum* Leaves Against Malaria Vector *Anopheles Stephansi*', 2008-09, Rs 0.775 Lakhs, 2012-13, UGC Minor Project.
- **Mrs. A. D. Dicholkar**, 'Velips in Goa – their society, problems and prospects', 2009-10, Rs 0.875 Lakhs, UGC Minor Project.
- **Dr. R. S. Belurkar**, 'Synthesis characterization, biological activity of some metal complexes', 2009-10, Rs. 0.425 Lakhs, UGC Minor Project.
- **N. Fernandes**, 'Paternal Alcohol Consumption', 2009-10, Rs. 0.84 Lakhs, UGC Minor Project.
- **Dr. S. Sankhalkar**, 'Characterization of *Moringa Oleifera* for its antioxidant molecules in vegetative and reproductive tissues', 2010-12, Rs 1.05 Lakhs, UGC Minor Project.
- **Ms. R. M. Tamuly**, 'Changing Population Structure: A case study in Goa's Education and Employment scenario', 2010-11, Rs. 0.15 Lakhs, UGC Minor Project.
- **Dr. R. Kanchana**, 'Keratinase Production by fungal species from Goa', 2011-12, Rs. 1.20 Lakhs, UGC Minor Project.

- **Ms. S. Ghanti**, 'Embedded System for network security', 2011-12, Rs. 1.55 Lakhs, UGC Minor Project.
- **Mr. S. F. Da Costa**, 'Regional Goan Writers writing in English', 2012-13, Rs. 0.75 Lakhs, UGC Minor Project.
- **Dr. S. D. Gaikwad**, 'Development of Village Information system', Mineral Foundation, Goa, Rs. 0.44 Lakhs.
- **Dr. S. D. Gaikwad**, 'Development of GPS Collars for Wildlife Study', Chowgule Management, 7.9 Lakhs.

Sponsored Consultancy Work undertaken:

- **Dr. S. D. Gaikwad**, 'Survey and consultancy for Plantation at Marina Project, Vasco-Cortalim Road, Goa, Yacht Haven (Goa) Pvt. Ltd., Chowgule House, Mormugao', 1 year, Rs. 1.55 Lakhs.
- **Dr. S. D. Gaikwad**, 'DGPS (Differential Global Positioning System) Survey and Digitization of Mining Lease for SESA Goa Pvt. Ltd', Directorate of Mines and Geology, Government of Goa, Rs. 6.80 Lakhs.

Conferences/Workshops Organized:

- National Conference 'Plant Sciences', 7- 8 February 2013.
- National Conference 'Global Financial Crisis: Vulnerability of Indian Economy', 15 -16 March 2013.
- Workshop 'Academic Writing', 18 July 2012.
- Workshop 'Techniques of Map Interpretation', 6 October 2012.
- National Conference 'Changing Geographies: The Dynamics of Natural and Cultural Landscapes', 12 - 13 October 2012.
- International Conference 'Human Migration in South Asia: Patterns, Development and Challenges', 22 - 23 February 2013.

Publications:

	Foreign	Indian
Research papers in Journals	03	14
In edited books	-	08
Books	-	06

Papers presented in Conferences/Seminars/Workshops:

Abroad: 01 Within India: 17 Within Goa: 06

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Any other information:

- **Dr. Nandkumar Sawant**, awarded 'The Best Paper Award' at the International Seminar 'Tribal Development' held at Pacific University, Udaipur.
- **Shri Hanumant Chopdekar**, awarded Late Meghashyam Naik Youth Literary Award 2012.

- **Shri Hanumant Chopdekar**, won the prestigious 'Late Savita Sadanand Khanolkar Literary Award 2012' from Konkani Kala Sahitya Kendra, Kudchadem.
- **Ms. Gauravi Keni**, student of TYBA, felicitated for winning the 'Hira Wagh Award' in the academic year 2012-13 for all round performance in studies and extra-curricular activities.

Sports Achievements:

- **Ms. Ninoshka Rodrigues**, TYBSc student won silver medal in *Poomse* and bronze medal in *Kereogi*, in the 4th West Zone Taekwondo Championship at Pune conducted by Taekwondo Federation of India.
- **Ms. Sukanya Chari**, SYBA student was selected to represent 'Goa State Chess Team' in national championship.
- **Mr. Kallal Maitra**, FYBA student represented 'Goa Under 19' in the Inter State Cricket league organized by BCCI and scored two centuries.
- **Mr. Stanlee Stephen**, SYBSc student won a silver medal in the National Karate Championship.
- **Mr. Stanlee Stephen**, SYBSc student represented India at the Asian Karate Championship at Kerala, India.
- **Mr. Joel Fernandes**, TYBSc student was selected for Handball State Team for the National Championship.

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

Year of Establishment: 1963.

College Address: Altinho, Mapusa, Bardez, Goa 403 507.

Principal's Details:

- **Name:** Fr. Walter de Sá
- **Contact No.:** 91 (0832) 2262356 /2263031 / 2250705
- **Fax:** 91 (0832) 2262356
- **E-mail:** 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.

Achievements of the College:

- ‘Best College Award’ in Sports by Goa University.
- ‘GENO Award’ for Best College in Sports by SJAG (Sports Journalist's Association of Goa).

Ongoing Projects/Completed during June 2012 - May 2013:

- **Dr. Filipe Rodrigues e Melo**, Department of Commerce, ‘Tourist Satisfaction at Resorts in Goa: An Empirical Study’, 2 years, Rs. 0.65 Lakhs, UGC Minor Project.
- **Ms. Sharmila Pais**, Department of History, ‘Goa under Monarquia Constitucional’ (1821-1910), 2 years, Rs. 0.30 Lakhs, UGC Minor Project.

Conferences/Workshops organized:

- ‘Career Guidance’, 6 March 2013.
- ‘SPSS and its Application in Social Science’, 8-9 March 2013.
- ‘Learning Management System’, 25-26 March 2013.
- ‘Better You Better Me’, 27 March 2013.
- ‘Adolescence: A Journey from Conflict to Integration’, 24-25 August 2013.
- ‘The Emerging Trends in Management’, 13 April 2013.
- ‘Bioprospecting and its Application’, 29 November 2013.

Publications:	Foreign	Indian
Research papers in Journals	-	23
In edited books	-	21
Books	-	02

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** - **Within Goa:** 20

Number of teachers who obtained research degree during the year:

Ph.D.: 02

Any other information:

- Celebrated ‘Golden Jubilee Year’ of the College, 27 June 2012.
- **Dr. Tushar Anvekar**, awarded ‘Navhind Times Ex-N.C.C. Achievers Award’ by SENA, Goa.

- Padma Vibhushan Dr. Anil Kakodkar, DAE Homi Bhabha, Chair Professor and Member, AEC delivered the Late Dr. Fr. Nicolau Pereira Lecture Series, 1 December 2012.

Sports achievements:

- **Debra Gomes**, won Gold medal in Taekwondo at the National games held at Pune.
- **Deseiree Pereira**, won Gold medal in shot-put, at the West Zone Athletics at Pune.
- State Level Achievements: Winners of the Chowgule Gold Cup 2012-2013; Runners-up for Xavier's Gold Cup Tournament 2012-2013; Runners-up for the Late P.V. Tharakan Volleyball Tournament for women.
- The following students represented Goa University at the National level:
Football (Women): Malvita Mascarenhas, Manjita Mathkar, Sheral D'Mello and Steffi Mendes; **Hockey (Women):** Pradnya Maulinkgar, Karishma Parulekar, Freya Mendes, Kalisa Bogati, Leoni Martins, Theresa Martins, Manjita Mathkar and Lorenta Pinto; **Hockey (Men):** Jolwyn Fernandes, Pringlee Britto, Sanford Fernandes and Robert D'Souza; **Kabaddi (Women):** Pallavi Tamandkar, Sonali Kambli and Swatee Malik; **Judo (Women):** Brenda D'Sa.

5. 4: DCTs S. S. Dempo College of Commerce and Economics

Year of Establishment: 1966.

College Address: Serra Building, near All India Radio, Altinho, Panaji Goa 403 001.

Principal's Details:

- **Name:** Dr. Radhika S. Nayak
- **Contact No. :** 91 (0832) 2226806/ 2226803. Fax.: 2421734
- **E-mail:** principal@dempocollege.edu.in, office@dempocollege.edu.in

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. - 939, M. Com. - 70 (self financed), B. B. A. (self-financed) - 132; PGDBA-Event Management (self-financed) – 20.

Faculty strength: 20.

Ongoing Projects/Completed during June 2012 – May 2013:

- **S. Jadhav**, 'A Computational Model for Bharat Natyam', 3 years, Rs. 7. 818 Lakhs, UGC Minor Project.

Conferences/Workshops Organized:

- Syllabi Revision Workshop in Commerce, 5 February 2013.
- Syllabi Revision Workshop in English, 12 March 2013.
- I-Create Workshop 'Entrepreneurship', 27- 30 August 2012.
- I-Create Workshop 'Entrepreneurship', 20-25 October 2012.

Publications:	Foreign	Indian
Research papers in Journals	-	02
In edited books	-	02

Papers presented in Conferences/Seminars/Workshops:

Abroad: 02 Within India: 05 Within Goa: 01

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Sports Achievements:

- Following students represented Goa University:
Hockey: Maghaya Praful, Anthony Po, Adarsh Kankonkar, Sadam Nawar and Agnelo Cabral; **Baseball:** Sai Naik and Sahil Vaigankar.
- Following students represented Goa State:
Kabaddi: Laximi Surale; **Cricket:** Jaipal Made.

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:** 91 (0832) 2790959

Website: www.carmelcollegegoa.org

Vision and Mission Statement:

Vision: Holistic Development of Women through Education.

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., B.Com, M.A. in Counseling Psychology, M.Com.

Faculty Strength: 72.

Conferences/Workshops organized:

- Department of Hindi organized a National Seminar 'Aatmakatha Evam Sansmaran-Mahila Lekhan Ke Vividha Swar', 12 December 2012.
- Department of Konkani organized a National Seminar 'The Novel', 22 January 2013.
- Department of Hindi organized a National Seminar 'Mahilao Dvara Likhit Upanyaas: Dasha Evam Disha', 5 February 2013.
- Department of History organized a National Seminar 'Golden Goa: Its Culture through the Ages', 10 August 2012.
- Department of Psychology organized State Level Seminar 'Research Methodology' 30 July - 1 August 2012.

Conferences/Workshops attended:

Abroad: - **Within India:** 07 **Within Goa:** 58

Publications: **Foreign** **Indian**

Research papers in Journals - 07

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 01 **Within Goa:** 12

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Sports achievements:

- **Ms. Zelya Correia** participated in the Kabaddi Nationals at U.P., November 2012.

5.6: M. E. S. College of Arts and Commerce, Zuarinagar

Year of Establishment: 1972.

College Address: Zuarinagar Goa, 403 726.

Principal's Details:

- **Name:** Dr. M. C. Rodrigues
- **Contact No:** 9890391325
- **Email:** mariadoceurodrigues@yahoo.co.in

Website: www.mescollege.org

Vision and 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: To equip the youth in and around Murgaoon 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 - 329, Commerce - 713, BBA - 125, BCA - 120, B. Com. (Shipping Management) - 98.

Faculty strength: 31.

Achievements of the College:

- Semester VI Results April, 2013, B.A- 82.79%, B.Com-82.56%, B.C.A-98.03%, B.B.A-100%, B.Com (Shipping) - 90.90%.
- Won 'Third Place' in Poster Competition, 'First Place' in Drawing Competition, 'First Place' in Mobile Photography and 'First Consolation Prize' at folk Dance at the 'Youth Festival 2012' organised by Youth Hostel Association of India, Margao unit.
- Bagged 4th Prize of Rs. 5000 at 'All Goa Inter Collegiate Dance Competition' organised by the one Dance Academy, 8 September 2012.
- **Ms. K. Jyothi**, student won the 3rd Prize at the 'Poster Competition' organised by Committee for Prevention of Sexual Harassment of women at work place, Goa University.
- Students won prizes in the events like Quiz show, Business Venture and Ad Guru at 'MERCHANTS 2012', a National Intercollegiate Intellectual Fest organised by Fr. Agnel College of Arts & Commerce, Pilar, 14 - 15 September 2012.
- Won prize under 'Quiz and Minute to win it' at 'METEORA-Goes Desi' organised by Don Bosco College, Panjim, 5-6 December, 2012.
- College won 'Third Place' at Street Play Competition, 'First Place' at Western Classical Vocal Solo Competition and 'Third Place' at Harmonium Competition at the XIIth State Youth Festival 2012 organised by Directorate of Sports and Youth Affairs, Government of Goa.

Conferences/Workshops Organized:

- Workshop 'All Accounting and Financial Accounting Papers for B.Com Semester I to Semester VI (except auditing)', Department of Commerce, 6-7 February 2013.

Papers presented in Conferences/Seminars/Workshops:

Abroad: - Within India: 03 Within Goa: 06

Sports achievements:

- **Ms. Rita Dalai**, SYBCom participated in the 28th National Women's competition held at Chennai, TN, December 2012.
- **Ms. Anisha Gawde**, FYBA participated in KhoKho at the 38th National women's sports competition held at S, UP, organised by Sports Authority of India and NIS Patiala, November 2012.
- **Ms. Selvi Pradhan**, SYBCom represented Goa under 19 Women's Cricket Championship held at Vijaywada, UP organized by Board of Control for Cricket in India.
- **Mr. Athith S. Naik**, SYBCom represented Goa Cricket Association at the Under 19 Cooch Bihar Cricket Championship, November 2012.
- The following students participated in the Inter-University West Zone:
Volley Ball: Mr. Gouresh Naik; **Hockey:** Mr. Sunny Gaonkar; **Taekwondo:** Mr. Kumar Sashi Bhushan and Ms. Rita Dalai.

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

Year of Establishment: 1973.

College Address: P.O. Box 347, G. R. Kare Road, Tansor, Comba, Margao Goa, 403 601.

Principal's Details:

- **Name:** Dr. I. Bhanu Murthy.
- **Contact No:** 91 (0832) 2714224/ 2732084
- **E-mail:** principal@damodarcollege.org

College Website: www.damodarcollege.org

Vision and Mission Statement:

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

Mission: 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.) - 70.

Faculty Strength: Full Time - 20

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

Ms. Lira Gama under FIP, 5 April 2013 at Goa University.

Conferences/Workshops Organized:

- 'Question Paper Setting', 28 July 2012.
- 'Exploring Linux', 30 August 2012.
- 'Unleashing the power of Android', 14 September 2012.
- 'An Overview of Indian Capital Market', 29 September 2012.
- 'Effects of Social Media on Careers - Do's & Don'ts', 4 - 5 December 2012.
- 'Revisioning Higher Education in the Global World', 13 January 2013.
- Workshop to finalise syllabus of Business Economics for B.Com. Semester I to VI, 22 January 2013.
- 'Government Schemes for the Welfare of Students', 07 February 2013.
- 'Revision of Syllabus - (Auditing I & II)' - Major III, 22 February 2013.

Papers presented in Conferences/Seminars/Workshops:

Abroad: 02 Within India: 15 Within Goa: 59

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Sports Achievements:

- **Ms. Tanvi Gaundalkar**, SYBCom student won Gold Medal at 4th West Zone Taekwondo Championship held at Balewadi Maharashtra, 7- 8 July 2012.
- **Ms. Tanvi Gaundalkar**, SYBCom student participated at Senior National Taekwondo Championship held at Patna Bihar, December 2012.
- **Mr. Sagar Palconda**, TYBCom Student won Gold Medal in Individuals Senior Men (below 29 years) and gold Medal in Senior Mixed Pair (below 29 years). in the First Goa State Poomsae Taekwondo Championship at Panjim, 17-19 August 2012.
- **Ms. Nandhini Saripalli**, S.Y.B.Com. Student was placed 4th at the All Goa State Chess Championship at Panjim, 27-29 July 2012.
- **Ms. Nandhini Saripalli**, participated in HCA 33rd National Team Chess Championship 2013 organized by A. P. Chess Association held at K. V. B. R. Stadium, Yousufguda, Hyderabad, 20-26 February 2013.
- **Ms. Nandhini Saripalli**, was adjudged as the 'Best Woman Player' in the 2nd UKCA Cup All India Open Fide Rated Chess Tournament held at Managalore Karnataka, 15-19 August 2012.
- **Ms. Nandhini Saripalli**, was adjudged as the 2nd Best Woman (consolation) in the Fomento All India Fide Rating Chess Tournament below 2000 Rating organized by Rudreshvar Panjim, Goa, 28-31 August 2012.
- **Mr. Fadte Srinivas**, SYBCom student participated at the State Level U/19 Cooch Behar Cricket Tournament, 25 November 2012 to 1 January 2013 at different venues in India.
- **Ms. Zahra Cardozo**, SYBCom Student participated in the 35th Junior (Girls) National Handball Championship held at Erode Tamil Nadu, 22 - 27 October 2012.
- **Mr. Ashish Shirodkar**, TYBCom Student participated in the Junior and Master National Power Lifting Championship held at Amravati, 24 - 30 January 2013.

- **Mr. Ashish Shirodkar**, won Silver Medal at Inter Collegiate Body Building Championship organized by Rosary College in collaboration with Goa Body Building and Fitness Association held at Rosary College, Navelim, Goa, 1 September 2012.
- **Our Institution**, Shree Damodar College of Commerce of Economics, Margao Goa, won '7th All Goa Inter-Collegiate Power Lifting' and also 'Weight Lifting Championship', organized by our College and Department of Physical Education and Sports, held in the College premises, 23-24 July 2012.

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: 1974.

College Address: Dnyanprassarak Mandal's College of Arts, Science and Commerce, P. O. Box 20, Mapusa, Goa, 403 507.

Principal's Details:

- **Name:** Dr. D.B. Arolkar
- **Contact:** 91 (0832) 2268683/2268488
- **E-mail:** 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 that 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. in Commerce

Faculty strength: 42.

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

Ms. Aparna P. Lolayekar, Assistant Professor in Economics.

Achievements of the College:

- College won the First Place in the Inter-Collegiate 'Mock Parliament' competition organized by Goa State Legislative Assembly. **Ms. Mugdha Joshi** won the award for 'Best Speaker', whereas **Ms. Snehal Kamat** won the award of 'Best Opposition Leader'. **Ms. Urjita Khedekar** was awarded 'The Best Parliamentarian' award and **Mr. Shripad Merchant** bagged the 'The Best Co-ordinator' award.
- Konkani Play 'Har Ek Friend Zaroori Hota Hai' presented by the College won the first place at the Inter-Collegiate 'One Act Play' competition organized by Kala Academy.
- The College 'Men Weightlifting team' bagged the championship. **Mr. Aniket Kerkar** won the 'Iron Man' title of Goa University. The college also won the 'Second Place' at power-lifting and women's swimming competitions.

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Ms. Aparna P. Lolayekar**, 'Economic Growth of Goa in the Post Reforms Period: A Sectoral Analysis', 2 years, Rs. 0.55 Lakhs, UGC Minor Project.

Ongoing projects/completed during June 2012 - May 2013:

- **Mr. Naresh Shirodkar**, 'Customer Attitude and Operational Risks in Response to Traditional and E-Bank Products of Select Banks in Goa: An Exploratory Study', 2 years, Rs. 0.50 Lakhs, UGC Minor Project.

Conferences/Workshops Organized:

- State Level Workshop 'Enhancement of Quality of Project Work at Third Year B.A./B.Com. Under Graduate Programmes', 8 October 2012.
- State Level Workshop 'Python, Ruby on Rails and Android', 1 March 2013.
- National Seminar 'Unorganised Sector in the Indian Economy: An Overview', 25 - 26 March 2013.

Publications:

	Foreign	Indian
Research papers in Journals	-	10
Books	-	01

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 04 **Within Goa:** 04

Sports Achievements:

- **Mr. Prabhu Madiwalar** participated in the All India National Kuashu Kung Fu Championship 2012 held at Nachinola, Goa, 16 - 17 December 2012.
- **Mr. Aniket Kerkar**, secured the fifth position at the 'National Bench Press Powerlifting Championship 2013' held at Jamshedpur, 22-26 February 2013.
- **Mr. Aniket Kerkar**, secured the sixth position at the 'Junior National Power-lifting Championship 2013' held at Amravati, Maharashtra, 24-30 January 2013.
- **Mr. Sayeel Lingudkar**, won Gold medal (equipped category) and Silver medal (unequipped category) at the 'National Bench Press Power-lifting Championship 2013' held at Jamshedpur, 22-26 February 2013.

- **Mr. Sayeel Lingudkar**, participated at the 'Junior National Power-lifting Championship 2013' held at Amravati Amravati, Maharashtra, 24-30 January 2013.
- **Mr. Stenzil Souza, Mr. Tabrez Hakeem and Mr. Shakti Naik** participated at the 'National Bench Press Power-lifting Championship 2013' held at Jamshedpur, 22-26 February 2013.
- **Mr. Sagar Rane**, participated at the 'All India Inter-University Baseball Championship 2012-13' held at Delhi University, 21-25 January 2013.
- **Mr. Ashutosh Natekar and Mr. Shubham Banaulikar**, participated in an Inter-University Cricket tournament held at Vadodara University.
- **Mr. Shubham Banaulikar**, represented Goa in U-19 Chooch Bihar trophy.
- **Mr. Nolan D'Sa, Mr. Antony Andrade, Mr. Tanay Candolkar, Mr. Lenny Camilo and Ms. Mamta Tayawagol**, participated in '11th Junior Wushu National Championship' held at Patliputra Sports Complex, Patna, Bihar, 5-9 February 2013.
- **Mr. Nolan D'Sa, Mr. Vivek Harmalkar, Mr. Hariom Sharma, Mr. Atmaram Malewadkar and Mr. Tanay Candolkar**, won Bronze medal in the '7th West Zone Wushu Championship' held at Peddem, 3 March 2013.
- **Mr. Siddesh Naik**, participated in the 'All India Inter-University Taekwondo Championship 2012-2013' held at Punjab University, Chandigarh, 19-25 January 2013.
- **Mr. Rajshekhar Naik**, participated in the 15th Youth National Volleyball Championship held at Shegaon, Maharashtra, 19-24 January 2013.
- **Mr. Rajshekhar Naik**, participated in the West Zone, Inter-University Volleyball Championship 2012-2013 held at Patna, 28 November - 2 December 2012.
- **Ms. Darshana Gauns** participated in the '24th West Zone Junior Athletics Championship 2012' at Pune, Maharashtra, 29 - 31 August 2012.
- **Mr. Romit Chandramohan Nasnodkar**, participated in the second 'Gun for Glory' Shooting Competition held at Pune, 12 -18 September 2012.

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.:** 91 (0832) 2335875/ 2335868
- **E-mail:** pmbhende@gmail.com

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:

- College troupe won 'First Place' for Patriotic singing competition organized by Yuva De Goa.
- College troupe won 'First Place' for Ghumat Aarti Spardha organized by DM's VNS Bandekar College, Assagao, 'First Place' for Ghumat Aarti spardha organized by Government College, Khandola and 'First Place' for Ghumat Aarti spardha organized by Rotaract Club, Ponda.
- **Ms. Mughdha Gaonkar**, won first place for Bhavgeet spardha organized by CES College, Cuncolim.
- **Shri. Shaunak Behare**, secured 'First Place' for Elocution competition organized by Gomantak Marathi Academy, Panaji.
- **Ms. Mugdha Gaonkar**, won 'First Place' for Abhang Gayan spardha organized by Government College, Khandola.
- BCA students won first and second prizes in different competitions at 'Noesis' an Inter-collegiate Information Technology festival in Rosary College, Navelim, Goa.
- College team won the 'Runners up' trophy at National level event conducted by Fr. Agnel College, Pilar, Goa.

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Ms. Sulaxana Vernekar**, 'Feasibility design and Development of smart soil monitoring system', Rs. 3.90 Lakhs, Department of Science, Technology and Environment.

Conferences/Workshops organized:

- Workshop 'Exam Reform-Test Design', 3 October 2012.
- National Symposium 'Mathematics and its applications', 11-12 January 2013.

Papers presented in Conferences/Seminars/Workshops:

Abroad: 02 **Within India:** 03 **Within Goa:** 02

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Sports Achievements:

- **Shri. Siddharth Kankonkar**, FYBCom won Gold medal in Judo at the Inter-collegiate tournament organized by Goa University.

- **Ms. Neha Shaikh**, SYBCom won Gold Medal in KATA and Bronze medal in KUMITE at the Karate Nationals held in Goa.
- **Shri. Rahul Kurdekar**, TYBCom won the Gold Medal and University SHREE for the Inter-collegiate Best Physique competition organized by Goa University.
- **Shri. Rahul Kurdekar**, TYBCom participated in the National level Body Building Championship at Gokak, Karnataka.
- College won 'Runners-up' trophies for both Men and Women in Kabaddi at Inter-collegiate level organized by Goa University.
- **Shri. Uttam Singh**, SYBCA won the Gold Medal in 100 m of 200 m free style and won the team championship.
- **Shri. Uttam Singh**, SYBCA represented the University in swimming at Calcutta.
- **Shri. Vishwajeet Phadte Gaonkar, Shri. Govind Prasad and Shri. Kedar Naik**, were selected to represent the University in Cricket at Vadodara, Gujarat.

5.10: P. E. S.'s Shri Ravi S. Naik College of Arts and 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.

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

Courses offered and Sanctioned Strength: B. A. - 297, B. Sc. - 223.

Faculty strength: 47.

Achievements of the College:

- The performance of students at the University Examination has been commendable at TYBA with 3 Distinctions, 25 First Classes, 60 second classes and 26 pass classes with a passing percentage of 77.02. At TYBSc there were 54 Distinctions, 52 First classes, 1 second class and 9 pass classes with a passing percentage of 93.54.
- Microbiology students won the overall Trophy as 'Best College of Syrapse - 2012' organised by Department of Microbiology, Smt. Parvatibai Chowgule College, Margao Goa.

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Dr. J. G. R. Monteiro**, 'Measuring productivity of sea parts in India', 2 years, Rs. 4.35 Lakhs, UGC Minor Project.

Outgoing Projects/completed during June 2012 - May 2013:

- **Dr. (Ms) Sunita R. Borkar, Dr.(Ms) Caroline Fernandes**, ‘Studies on Phosphate solubilizing halophiles and alkaliphiles from marine and coastal ecosystems as potential biofertilizers for saline soils’, 3 years, Government of India, Ministry of Earth Sciences, Rs. 11.8706 Lakhs.
- **Dr. (Ms) V. V. Prabhudesai**, ‘An Impact of Marathi & Konkani on Malvani Dialect’, Rs. 0.60 Lakhs, UGC Minor Project.

Publications:

	Foreign	Indian
In edited books	01	-

Papers presented in Conferences/Seminars/Workshops:
Abroad: - **Within India:** 02 **Within Goa:** 02

Number of teachers who obtained research degree during the year:
Ph. D.: 03

Other information:

- **Dr. (Ms) V. V. Prabhudesai** awarded ‘Gomantak Marathi Bhasha Purskar’ for the book ‘Gomantkiya Marathi Kadambari’.

5.11: Cuncolim Educational Society’s College of Arts and Commerce, Cuncolim

Year of Establishment: 1987.

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

Principal’s Details:

- **Name:** Dr. Laximan G. Naik
- **Contact No.:** 91 (0832) 2865210; 9822161242
- **E-mail:** 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 first Generation learners.

Course offered & Sanctioned and filled strength: B. A. - 171, B.Com. - 303

Faculty strength: 22

Teachers deputed for higher studies under FIP or on Fellowship:

Shri Prakash R. Morakar, January 2011 to March 2012.

Achievements of the College:

- Accreditation NAAC with “B” Grade CGPA of 2.59.
- The performance of students at the University Examination - TYBA with 90.19% and TYBCom with 81.73%.
- Organized the ‘14th Yuva Konkani Sahitya Samellan’ in collaboration with Goa Konkani Academy, 8–9 February 2013.

Conferences/Workshops organized:

- Department of Konkani organised State level workshop ‘Comparing for the students’.
- Department of Konkani organised a 7 day workshop ‘Devnagari typing’ for for the College students.

Number of teachers who obtained research degree during the year:

Ph.D.: 03

Sports achievements:

- College Cross Country Team secured Third position at the ‘Inter-Collegiate Cross Country Championship’ organized by Goa University.
- **Mr. Vishal Velip**, TYBA secured 3rd position in individual category at the ‘Inter-Collegiate Cross Country Championship’ organized by Goa University.
- **Master Suthil Naik Dessai**, SYBA won 1st place in 56 kg weight group at ‘All Goa Inter-Collegiate Power Lifting Championship’ organized by Shree Damodar College of Commerce and Economic Margao Goa.
- **Master Abhijit Naik**, SYBA won silver medal at ‘Inter Collegiate Best Physique Competition’ organized by Goa University in 56 kg weight group.
- **Master Vasu Gaonkar and Rama K. Gaonkar**, both FYBA class, participated in National level ‘Atya Patya Championship’ held at Pondicherry, 18 - 20 August 2012.

5.12: Government College of Arts, Science and Commerce, Sanquelim

Year of Establishment: 1988.

College Address: Government 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:** 91 (0832) 2364271

Email: gcasnql@bsnl.in

Courses offered and sanctioned strength: B. A. - 264, B. Sc. - 115, B. Com. - 264.

Faculty strength: 38.

Conferences/Workshops attended:

Abroad: - **Within India:** 06 **Within Goa:** 21

Publications:	Foreign	Indian
Research papers in Journals	-	01

Any other Information:

- **Dr. Soniya Sirsat**, awarded 'Yuva Chaitanya Puraskar 2012' from the Goa Konkani Akademi.

Sports achievements:

- **Mr. Ritesh Zarmekar**, SYBCom represented Goa State in the '15th Youth National Volleyball Championship 2012', held at Shegaon, Maharashtra.
- **Ms. Shilpa Rane**, **Ms. Gayatri Sane**, both FYBA and **Ms. Shaila Padwalkar**, TYBA represented Goa State in the '60th Senior National Kabaddi Championship 2012' for women held at Amaravati, Maharashtra.
- **Mr. Ramdas Varak**, FYBA represented Goa University in the 'West Zone Inter University Kho-kho Championship 2012-2013' held at Chinchani, Mumbai.
- **Mr. Jayant Satodkar**, TYBCom represented Goa University in the 'West Zone Inter University Cricket Championship 2012-2013' held at Vadadara, Gujrat.
- **Mr. Ritesh Zarmekar**, SYBCom represented Goa University in the 'West Zone Inter University Volley Ball Championship 2012-2013' held at Patan, Gujarat.

5.13: Goa College of Home Science, Campal, Panaji

Year of Establishment: 1988.

College Address: Opposite Parade Ground, Campal, Panaji, Goa.

Principal's Details:

- **Name :** Ms. Rajal K. Shinkre, Principal (June 2012 to May 2013)
Dr. Mahesh Pai, Offg. Principal (June 2013 till date)
- **Contact No.:** 91 (0832) 2227603/ 2425254
- **E-mail:** principalgchs@rediffmail

Website: www.goahomescience.gov.in

Vision and Mission Statement:

Mission: The GCHS aims to evolve as a center of excellence in the field of Home Science education, by ensuring all round development of the students, in addition to instilling in them the Institutes' core values of innovation, excellence and discipline with a thrust on empowering women to be self-reliant and responsive to the changing trends in the Industry and Society.

Sanctioned strength: 50

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

Faculty strength: 4

Achievements of the College:

- Organized Fate 'Silver Sparklzz 2013' in commemoration of the 25th year celebration of the College, 22-23 January 2013.
- Organized a 'Public Guest Lecture' by Dr. Wiseman Pinto, Head of Pathology Department, Goa Medical College, in collaboration with Goa Medical College, 'Importance of Healthy Diet and Lifestyle Diseases'.
- Commemorated 'World Breastfeeding Week', 1-7 August 2012.
- Celebrated 'National Nutrition Week', 1-7 September 2012.
- Coordinated 'SIP Programme' for 'Japanese students of Goa University, 11-15 February 2013.
- KVIC organized an exhibition 'Khadi Gramudyog Darshan' in association with Goa College of Home Science at College Campus, 17 January 2013.
- Awareness Programme on 'Prime Minister's Employment Generation Programme (PMEGP)' held at College Campus, 22-23 January 2013.
- Orientation to 'Work Culture and Ethics' held during the academic year.
- Nestle India Limited organized 'Nutrition Awareness Programme (NAP)' under the Nestle Healthy Kids program in collaboration with Goa College of Home Science.
- Programmes 'Personal hygiene and Nutrition for primary school children' and 'Adolescent development training for high school children' held in collaboration with Sygenta India Ltd.
- Sanjeevan, a Ponda based NGO organized a one year Diploma programme 'Life skills Development in Home Science' to cater to 10th standard dropouts (girls) in association with Goa College of Home Science.

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Ms. Y. Suvarnagowri**, 'Setting up of Handloom Weaving NAD Training Centre', May 2012, Rs. 5 Lakhs, Government of Goa.

Ongoing projects/Completed during June 2012 - May 2013:

- **Ms. Y. Suvarnagowri**, Study and Utilization of local plants for antimicrobial finishes on Textiles, February 2013, Rs. 0.5 Lakhs, Deputy Conservators of Forests Research and Utilization Division.

Sponsored Consultancy Work undertaken:

- **Ms. Y. Suvarnagowri**, 'Documentation, Study and Utilization of local plants for Natural Dyeing', June 2012, Department of Science, Technology and Environment, Rs.12.45 Lakhs, Government of Goa

Conferences/Workshops organized:

- Workshop 'Transformation' for teachers as a staff Development Activity, 30 June 2012.
- Workshop 'Cook Your Way to Good Health', 4 September 2012.
- Workshop 'Writing as a Career', 6 February 2013.

5.14: Government College of Arts, Science & Commerce, Khandola

Year of Establishment: 1989.

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

Principal's details:

- **Name:** Dr. Seema P. Rath (Officiating Principal).

Website: www.khandolacollege.org

Vision and Mission Statement:

Vision: To be Centre for Excellence.

Mission: 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. - 180, B.Sc. - 180, and B. Com. - 420.

Faculty strength: 28.

Teachers deputed for higher studies under FIP: 01.

Achievements of the College:

- Four students were selected by LOKMAT for a three day Film Appreciation Course and were members of Young Jury Awards at IFFI 2012.

- 'Won Third Place' for 'Folk Dance Competition' organized by Youth Hostels Association of India, Margao Unit at Ravindra Bhavan, Margao.
- 'Won Third Place' in 'All Goa Intercollege Ghumat Arati Competition' organized by GVM's College, Ponda.
- 'Won First Place' in Mando singing competition, organized by St. Theresa's High School, St. Estevam.
- 'Won First Place' in 'Hindi Elocution Competition' organized by Chowgule College, Margao.
- 'Won Second Place' in 'Advertisement Marketing' organized by Carmel College, Nuvem.
- Organized 'All Goa Intercollege Ghumat Arati Competition'.
- Organized 'All Goa Intercollege/Higher Secondary Carol Singing Competition'.
- Abhyas Mandal organized 'Intercollegiate Abhang Gayan and Kavyajagor Competition' in association with Directorate of Art and Culture, Government of Goa.
- NSS unit organized 'Intercollegiate Elocution Competition on Environmental Hazards' in association with Marcel Kala Premi Sangh.

Ongoing projects/Completed during June 2012 - May 2013:

- **Dr. Seema P. Salgaonkar**, 'Major Research Project titled 'Awareness Level at Gram Sabha in Goa' 2 Years, Rs.4.37 Lakhs, ICSSR, New Delhi.

Conferences/Workshops organized:

- Study Tour Committee conducted State Level Seminar 'Relevance and conduct of Study Tour' for colleges and Higher Secondary Schools in Goa.

Publications:	Foreign	Indian
Research papers in Journals	01	07
In edited books	-	03

Papers presented in Conferences/Seminars/Workshops:

Abroad: 01 Within India: 11 Within Goa: 13

Number of teachers who obtained research degree during the year:

Ph. D.: 04

Any other information:

- **Dr. Prakash Vazrikar**, won 2nd prize for 'Best Script Writing' at State Level Marathi Drama Competition organized by Kala Academy and Government of Maharashtra.

Sports Achievements:

- **Ms. Marina Albuquerque**, won Runners-up position in Women's singles, Doubles and mixed doubles at the All Goa Civil Services Badminton Tournament.
- **Ms. Marina Albuquerque**, won Bronze Medal in the Women's doubles at the All India Civil Services Badminton Tournament 2012-2013 at Bangalore, March 2013.
- **Ms. Sujata Gaonkar**, won Runners-up position in Women's Doubles Badminton Tournament organized by Department of Sports and Youth Affairs, Government of Goa.

5.15: Government College of Arts, Science and Commerce, Quepem

Year of Establishment: 1989.

College Address: Government College of Arts, Science and Commerce, Quepem, Goa 403 705.

Principal's Details:

- **Name:** Prof. B. G. Nayak
- **Contact No:** 91 (0832) 2662342
- **E-mail:** bhaskarnayak1@rediffmail.com

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: F.Y./S.Y./T.Y./B.A./B.Com./B.Sc./Computer Sc.

Any new course(s) started: M.Com.

Faculty strength: 42

Achievements of the College: Research Centre in Commerce has commenced operation.

Sponsored Research Projects sanctioned between June 2012 - May 2013.

- **Dr. Reyna Sequeira**, Sociological Study of Kumbhar Community of Goa, 2 years, 0.55 Lakhs, UGC Minor Project.

Publications:	Foreign	Indian
Research papers in Journals	-	04
In edited books	-	02
Books	-	01

Papers presented in Conferences/Seminars/Workshops:

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

Number of teachers who obtained research degree during the year:

Ph. D.: 03

Any other information:

- **Dr. Rajay Pawar**, conferred National Award of “Kavita Trust”, Mangalore, January, 2013.
- **Dr. Rajan Mathew**, represented Goa State for the All India Civil Service Tournament held at Bangalore, 25 February 2013 to 3 March 2013.

Sports Achievements:

- **Ms. Karishma Velip**, represented Goa University for the All India Inter University Cross Country Championship held at Nagpur, Maharashtra, 7 October 2012.
- **Ms. Dezmina D’Costa**, represented Goa University for the All India Inter University Cross Country Championship held at Nagpur, Maharashtra, 7 October 2012.
- **Mr. Prakash Gaonkar**, represented Goa University for the West Zone Inter University Hockey Tournament held at Jaipur, Rajasthan, 29 October to 3 November 2012.
- **Mr. Jallo Gracias**, represented Goa University for the West Zone Inter University Hockey Tournament held at Jaipur, Rajasthan, 29 October to 3 November 2012.
- **Mr. Swote T. Manjarekar**, represented Goa State for the 7th Senior National Football Championship held at New Delhi, 1- 9 January 2013.
- ‘Runners up’ Inter Collegiate Cross Country Championship (Women) organized by Pillar College.
- ‘Runners up’ Inter Collegiate Cricket Tournament (Men) organized by Dhempe College, Miramar.
- Won ‘Third Place’ Inter Collegiate Cross Country Championship organized by Pillar College (Men).

5.16: Rosary College of Commerce and Arts, Navelim, Salcete, Goa

Year of Establishment: 1990

College Address: Navelim, Salcete, Goa 403 707.

Principal’s Details:

- **Name:** Rev. Dr. Simão R. Diniz
- **Contact No.:** 9822124121
- **E-mail:** rosary_1990@sify.com

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 – 324, Arts – 134, Computer Applications – 89, Business Administration – 39, Business Administration (Travel & Tourism) – 15, Masters of Commerce – 39.

Faculty strength: 24

Achievements of the College:

- Academic Performance for the Academic Year 2012-13 is Commerce - 93.94%, Arts - 82.53%, BCA - 100%, BBA - 100%, M.Com - 100%.
- College published the VIIIth issue of its inter-disciplinary Journal, 'GYANA'.

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Dr. Francis X. Lobo**, 'The Influence of Regular Yogic Practice on Physiological Parameters in the Middle Age Group', 2 years, Rs. 0.95 Lakhs, UGC Minor Project.

Conferences/Workshops/ Seminars Organized:

- State level Inter-Collegiate Management Event 'Impressions '12... Leave a Mark', 12 – 13 October.
- State Level Workshop 'Writing of Letters of Application and Skills for Appearing for an Interview', 1 November 2012.
- State level Inter-Collegiate Info Fest event '*Noesis*', 8 – 10 December 2012.
- State Level Seminar 'Sexual Revolution: Strategies for Healthier Adolescents', 13 February 2013.
- Workshop 'Conflict and Stress Management', 23 February 2013.
- State Level Seminar 'Managing Personal Finances', 9 March 2013.
- State Level Seminar 'Today's Challenges in HRM – A New Interpretation', 12 March 2013.
- State Level Seminar 'FDI in India – Its Challenges and Future Prospects', 16 March 2013.
- State Level Seminar 'Innovative Trends in Hospitality Marketing in India', 20 March 2013.
- State Level Seminar 'Brain Mapping – Guide to Career Planning', 4 April 2013.
- State Level Seminar 'Entrepreneurship Opportunities in Tourism', 5 April 2013.

Publications:

Research papers in Journals

Foreign

-

Indian

03

Papers presented in Conferences/Seminars/Workshops:

Abroad: -

Within India: -

Within Goa: 04

Sports achievements:

- College won 'First Place' in 'Goa Krida 2012', organized by the Students' Council.
- College won 'Xavier's Gold Cup', Inter Collegiate Men's Football Tournament, organized by St. Xavier's College, Mapusa.
- 'Runners up' at the 'VIIth All Goa Inter-Collegiate Weight Lifting and Power Lifting Championship' organized by Shree Damodar College of Commerce & Economics.

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.:** 91(0832) 220042; 9421157379
- **E-mail:** patkar_santosh@rediffmail

College Website: www.saraswatbba.com/www.caculoccollege.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. - 67.

Faculty strength: 14.

Achievements of the College:

- BBA students won 'Second Place' in Impressions - A Management Fest' organized by Rosary College, Navelim, October 2012.
- BBA students won 'First Place' in a sports event organized by Xavier.
- BBA students won 'First Place' in 'Lakshya - A Management Fest' organized by MES College, Vasco, December 2012.
- Two students won the 'First Place' in 'Bizz-Quize - A Business Quiz' organized by Dempo College, Panjim, January 2013. The same students won the 'First Place' in 'Revelations - A National Level Business Quiz' organized by DMC College.

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 04 **Within Goa:** -

Sports Achievement:

- Won 'Third Place' in the 'Golden Trophy Football Tournament' organized by Chowgule College. **Mr. Tysous Fernandes** begged the best defender award.
- Winners of 'Inter Collegiate Badminton Championship'.
- The Judo team won 2 Silver and 2 Bronze medals at the individual level.

- Won 'Intercollegiate Swimming Championship'. Mr. Sahil Nayak won 2 medals in the individual event.
- Won the Inter Collegiate Badminton Championship and Swimming Championship, organized by Goa University.
- Runners-up in the Inter Collegiate Baseball championship organized by Goa University.

5.18: Fr. Agnel College of Arts and Commerce, Pilar

Year of Establishment: 1991.

College Address: Pilar, Goa.

Principal's Details:

- **Name :** Fr. Fredrick Rodrigues
- **Contact No.:** 91 (0832) 2218673
- **E-mail :** fragnelcol@rediffmail.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).

Any new course(s) started: The College has introduced career-oriented courses which are sanctioned by the UGC – Security Analysis and Portfolio Management and Computer Hardware.

Faculty strength:-18

Teachers deputed for higher studies under FIP or on Fellowship of more than three months duration abroad: 02

Sponsored Research Projects sanctioned between June 2012 - May 2013.

- **Dr. Anthony P. Rodrigues,** 'A Study of the Problems of Sick Micro, Small and Medium Scale Enterprises in Goa and Suggested Strategies for their Revival', 2 years, Rs. 1.15 Lakhs, UGC Minor Project.

Conferences/Workshops organized:

- 'First Aid', 27 August 2012.
- 'Duties, Rights and Responsibilities of Teachers under the 6th Pay Commission', 6 October 2012.

- 'Ayurveda its ancient association with Goa, Modern usage and economic Opportunities', 6 December 2012.
- 'Inspiring the youth for the New Generation', 6-8 December 2012.
- 'Discovery of God's Particle and the Dialogue at the Frontiers of Science and Religion', February 2013.
- 'Stress Management, 30 April 2013.

Papers presented in Conferences/Seminars/Workshops:

Abroad: - Within India: - Within Goa: 32

Any other Information:

- **Dr. Biula Vigilante Pereira**, awarded 'Certificate of Excellence' for Meritorious Services and Outstanding Performance in the area of Education, at New Delhi, 29 August 2012.

Sports achievements:

- **Ms. Melissa Dias**, selected for the Goa State Junior Team (Girls) for the 20th Junior National Tennis Ball Cricket Championship held at Patiala, Punjab, 14-17 June 2012.
- Winners of the football tournament organized by Bombay Gymkhana Women's Football League.
- **Mr. Hansel Fernandes** and **Mr. Matin Cardozo**, represented Goa in the Junior Hockey National (Men), held at Lucknow, 1-10 September 2012.
- **Mr. Fredsan Marshall** and **Ms. Christie Dias** represented Goa at the '24th West Zone Junior Athletics Championships 2012' at Pune, 25-31 August 2012.
- **Mr. Fredsan Marshall**, won the 3rd Prize at the 'All India Bicycle Race 2012' (25kms) organized by Danvini Social Cultural and Sports Club, Vasco, 2 October 2012.
- **Mr. George Kulla**, represented Goa for the '2nd Hockey India Senior National Hockey Championship' held at Bangalore, 23-30 September 2012.
- **Mr. Rohan Kavlekar** and **Mr. Arun Mangueshkar**, represented the Goa State Youth Contingent for the '281th National Adventure Programme' 4-10 January 2012.
- **Ms. Christie Dias**, **Ms. Pooja Singh**, **Ms. Melissa Pereira** and **Mr. Nitin Sawant**, attended a 'Volleyball Coaching Camp', 4-30 December 2012, in preparation for the 3rd Lusofonia Games.
- **Ms. Melissa Pereira**, represented Goa State in Volleyball in the '38th National Women Sports Competition' held at Saifai, UP, 20-23 November 2012.
- **Ms. Angel Smile de Braganza** and **Ms. Valencia Lorina Braganza**, **Ms. Melissa Pereira**, represented Goa University for football (women) at Kolhapur, 5 February 2013.
- **Mr. Fredsan Marshall**, was selected to play for Dempo Sports Club in the I League U20 team.
- **Mr. Arun Mangueshkar**, secured 'Grade A' and completed the '281st National Adventure Programme' held at Pachonarhi, January 4 -10 2013.
- **Mr. Fredsan Marshall** represented Goa State (Juniors) in Athletics at Balewadi, Pune.
- **Mr. Hansel Fernandes**, **Mr. Martin Cardozo** and **Mr. George Kullu**, represented Goa University at the inter University in Hockey.
- **Mr. Max Dias**, won Silver medal in 'Power Lifting Completion' at the Inter Collegiate.
- Winners of 'Futsal Women Tournament' organized by Don Bosco Oratory Panaji.

- Women team was 'Runners up' at the Beach Football Tournament organized by Goa Velha Sports Club at Miramar.
- Won 'Volleyball Women Tournament' held to mark the Golden Jubilee Celebration at St. Xaviers College, Mapusa.
- College won Silver and Bronze medals in the 'Power Lifting Competition' organized by Damdar College Margao.

5.19: Government College of Arts and Commerce, Pernem

Year of Establishment: 1993.

College Address: Government College of Arts and Commerce, Virnoda, Pernem, Goa.

Principal's Details:

- **Name:** Gervasio S. F. L. Mendes, (Acting Principal)
- **Contact No.:** 91 (0832) 2201762; 9421094271.
- **Fax:** 2201762.

Website: www.govtcollegepernem.org.

Courses offered and sanctioned strength: B. A., B. Com.

Faculty Strength: 16.

Achievements of the College:

- Konkani Bhasha Mandal organized the '18th Yuva Mahotsav' in collaboration with Government College of Arts and Commerce, Pernem, 12-13 January 2013.

Conferences/Workshops Organized:

- Department of Konkani and Marathi organized 'Kavya Maifal', 13 July 2012.
- Geography Department organized the programme 'Hiroshima Nagasaki Day', 11 August 2012.
- Women's Welfare Cell organized 'Sensitization Programme', 7-12 September 2012.
- Awareness and Right Committees in association with the Diocesan Family Service Centre, Goa celebrated 'World Suicide Prevention Day', 10 September 2012.
- College observed 'Voters Day', 25 January 2013.
- Conducted 'Summer Camp' for students of neighbouring schools, 12-23 April 2013.
- Staff Academy Committee and Examination Committee organized workshop 'Prelude to Paper setting, Supervision and Evaluation' for teaching staff and concerned non-teaching staff, 6 September 2012.
- College Library Committee organized 'Book Talk' entitled 'Life is what you make it', 9 August 2012.
- College 'Nature Club' in association with Tarun Bharat organized a lecture by Mr. Kiran Purandare on 'Environmental Conservation' for FYBA students, 17 January 2013.

Sports achievements:

- Women's Kabaddi Team won the 'Inter-College Kabaddi Championship' organized by Goa University.
- Men's Kabaddi Team won the 'Inter-College Kabaddi Championship' organized by Goa University.
- College won 'Silver medal' in the 62 Kg. Wt. Category Weight Lifting Championship, organised by Goa University.
- College won 'Silver medal' in the 60 Kg. Wt. category and 'Bronze medal' in the above 110 Kg. Wt. category for Power lifting Championship, organised by Goa University.
- **Ms. Karishma Thakur**, FYBCom won 'Bronze Medal' in Long Jump event at the Athletic meet conducted by Goa University.
- College won 'Silver medal' in the 60 kg. Category for Power Lifting Championship at the Inter-College Level.
- **Mr. Abrar Naik** and **Mr. Vishnudas Parab**, both FYBA represented Goa at the '39th Junior National Kabaddi Championship held at Tirupathur, Tamil Nadu, 26-30 December 2012.
- **Mr. Yogesh Gaonkar**, FYBA secured 'First Place' in 55-60 kg Wt. Category at the 3rd All Goa Karate-do Championship, held at PjN Multipurpose Indoor Stadium, Margao-Goa, 24 February 2013.
- **Mr. Rama Kharvat**, TYBCom and **Mr. Gauresh Kharvat**, FYBA represented Pernem Taluka at the State Level Tribal Sports Festival in Tennis Ball Cricket and Traditional Games, held at Navelim, Bicholim Goa, 24 February 2013.

Publications:

Research papers in Journals

Foreign

-

Indian

01

Papers presented in Conferences/Seminars/Workshops:

Abroad: -

Within India: 01

Within Goa: 12

5.20: Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts and Commerce, Canacona

Year of Establishment: 1993.**College Address:** Delem, Canacona, Goa 403 702.**Principal's Details:**

- **Name:** Dr. F. M. Nadaf
- **Contact No:** 91 (0832) 2633433; 9765459914.
- **E-mail:** fmnadaf@rediffmail.com

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. – 437.

Faculty strength: 14

Teachers deputed for higher studies under FIP or on Fellowship of more than three months duration abroad: 02

- **Shri. Purnanand Chari**, Assistant Professor in Konkani.
- **Shri. Arvind Haldankar**, Associate Professor of Sociology.

Achievements of the College:

- Department History and Cultural Committee in association with the Directorate of Art and Culture, Government of Goa organized a special programme 'The Struggle', 19 December 2012.
- Won 'First Place' in the 'Street Play Competition' organized by State Election Commission of Goa on the occasion of Voters Day.
- Won 'First Place' in Poster Competition organized by Directorate of Health, Government of Goa.
- Won 'First Place' in Rangoli Competition and 'First Consolation' in Karoke Contest by at the Yuva Utsav organized by Hostels Association.
- Won 'Second Place' for the Ghumot Arti Competition organized by Government College, Khandola.
- Won 'First Place' in Singing, 'Third Place' in Street Play and Rangolli, at Lok Utsav 2012.
- Won 'First Place' in Street Play Competition conducted by Government College, Quepem.
- Won 'First Place' in Poetry recitation in Konkani, 'Third Place' in Marathi at the Kavi Samellan organized by C.E.S College, Cuncolim, Goa.
- Won 'First Place' in Poetry Competition in Konkani and 'First Consolation' in Marathi at 'Kavya Sandhya' organized by S. P. Chowgule College, Margao.
- Won 'First Place' in the 'Screen Play Script Writing Contest' at the 14th Yuva Konkani Sahitya Samellan at C. E .S College, Cuncolim, Goa.

Sponsored Research Projects sanctioned between June 2012 - May 2013.

- **Dr. F. M. Nadaf**, 'Western Ghats of Goa: A Geographical Diagnosis', 18 months, Rs. 1.25 Lakhs, UGC Minor Project.

Conferences/Workshops Organized:

- State Level Workshop 'Train the Trainer with emphasis on Information and Communication Technology (ICT)' sponsored by Indian Council of Social Science Research (ICSSR), 8 - 9 March 2012.

- Department of Geography in association with Directorate of Art and Culture, Government of Goa organized a State Level Workshop 'Teaching and Learning of Geography', 30 March 2012.
- Department of Geography and NSS Unit organized a Workshop 'Disaster Management' in association with South Goa Collectorate Margao and Sarits Foundation, Mumbai, 27 July 2012.
- NSS Unit conducted a Workshop 'Patriotic Singing' 8 August 2012.
- Internal Quality Assurance Cell conducted a Workshop 'E-Learning Resources' 2 May 2013.

Publications:	Foreign	Indian
Research papers in Journals	-	09
In edited books	-	01
Books	-	01

Papers presented in Conferences/Seminars/Workshops:

Abroad: - Within India: 02 Within Goa: 02

Any other information:

- **Shri. Vividh Pawaskar**, elected President of Trainers Association of Goa, affiliated to EDC, Goa
- **Dr. Rupa Chari**, participated as Contingent Leader of Goa State at Jalagaon, Maharashtra for pre-selection of volunteers for RD Camp.
- **Dr. F. M. Nadaf**, appointed Member on the State Level Screening Committee for recommending the proposals under the Financial Assistance Scheme to NGO's/Voluntary Agencies to the Ministry of Youth Affairs, Government of India.
- **Shri. Ramdas Sawant**, elected Treasurer of Goa Chess Association, affiliated to All India Chess Federation, Chennai Tamil Nadu.
- **Shri. Purnanand Chari**, appointed Member for formulating Youth Policy of the Government of Goa.

Sports Achievements:

- Winners at National and Inter University Championships.
- **Mr Anand Velip**, 'Runner up' West Zone Tennikoit.
- **Ms. Nitisha Gaonkar, Mr. Sandesh Gaonkar, Mr. Sunil Velip, Ms. Sheshikala Velip**, participated in the All India Inter University Cross country at Nagpur.
- **Mr. Durgesh Prabhugaonkar, captained the** University Basketball team at All India Inter University Baseball New Delhi.
- **Mr. Vinesh Satarkar, Mr. Manohar Gaonkar, Mr. Pradesh Gaonkar, Mr. Ganesh Sudhir, Mr. Sachin Dessai**, participated in the All India Inter University Baseball at New Delhi.
- **Mr. Nilesh Gaonkar, Mr. Siddhart Naik**, participated in the West Zone Inter University Kho Kho at Mumbai.

5. 21: Narayan Zantye College of Commerce, Bicholim

Year of Establishment: 1994.

College Address: Vathadev, Sarvan, Bicholim Goa, Post: Industrial Estate, 403 529.

Principal's Details:

- **Name:** Shri Arun Sakhardande retired on 30 April 2013.
Shri Rajesh Amonkar (Officiating Principal).
- **Contact No:** 91 (0832) 2361377/2363769; 9823618272.
- **E-mail:** asmnad3@rediffmail.com

Website: www.zantyecollege.ac.in

Vision and Mission Statement:

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. - 522

Any new course (s) started: M.Com. (self financing basis)

Faculty Strength: 14

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Dr. K.G. Sankaranarayanan**, 'Employee Downsizing: Implications of VRS on Public Sector Banks in India', 2 years, Rs.1 Lakh, UGC Minor Project.

Conferences/Workshops Organised:

- Organized Workshop 'I Create-GCCI-GCA Change the Mindset' 7-10 November 2012.

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** - **Within Goa:** 03

5.22: Government College of Commerce, Borda, Margao

Year of Establishment: 2010.

College Address: Borda, Margao, Goa 403 602.

Principal's Details:

- **Name:** Dr. Renji George Amballoor
- **Contact No:** 91 (0832) 2700555; 9421247960
- **E-mail:** 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: B.com – 60.

Achievements of the College: Overall results of 98.24% for the first batch of T.Y.B.Com.

Sports Achievements:

- **Mr. Salil Khanolkar**, represented Goa in West Zone Senior Nationals Tennikoit championship, Chattisgarh.
- **Mr. Salman Shaikh**, represented Goa University at 'All India Inter University Taekwondo Championship' held at Chandigarh, January 2013.
- **Mr. Salman Shaikh**, won 'Bronze medal' at the State level Taekwondo championship conducted by Sports Authority of Goa.

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 (In charge)
- **Contact No.:** 9422446993
- **E-mail:** mandrecollege@yahoo.com

Website: www.mandrecollege.ac.in

Courses offered, sanctioned and filled strength: B.Com. – 23

Achievement of the College:

- College won 'Third Place' in the 'Inter College Street Play Competition' at Zantye College of Commerce, Bicholim, Goa.

Conference/Workshops Organized:

- International Conference 'Health Medicine'.

5.24: Swami Vivekanand Vidya Prasarak Mandal's College of Commerce, Bori, Ponda

B. PROFESSIONAL COLLEGES

5.25: 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:** 91 (0832) 6644321; 9890651680
- **E-mail:** marieraj19@rediffmail.com

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 - 71, BBA (Travel & Tourism) - 22, B.A.M.M - 15, B.B.A - 44, B.S.W. - 06, B.P.Ed - 49.

Faculty Strength : (Full time, Contract Basis with more than 11 Months): 20

Achievements of the College:

- **Ms. Mashelkar Disha Narayan** got the 'Third Rank' in BA Examination of Goa University.
- **Mr. Udit Kumar Chauhan**, TYBBA won 'Silver Salver' for the Best Management student contest held by the Goa Management Association (GMA).
- Secured 'Second Place' at 'I-RIX'" organized by Chowgule College of Arts and Science, Margao, 26 - 27 November 2012.
- Secured 'Second Place' at 'NEOSIS' organized by Rosary College of Commerce and Arts, Navelim, 8-10 December 2012.
- Secured 'Second Place' at 'X- ICONZ' organized by Fr. Agnel College, Pilar.
- Secured 'Second Place' at 'EVOGEN 3.0' organized by Gogte College of Technology, Belgaum, 1-2 February 2013.
- Secured 'First Place' at 'NUCEO' organized by GVM's college, Ponda.
- Secured 'First Place' at 'SYNERGY' organized by M.E.S college of Arts and Commerce, Zuarinagar on 26th February 2013
- Secured 'First Place' amongst the outstation Colleges in 'KALEIDOSCOPE' organized by Sophia College, Mumbai.

Sponsored Research Projects sanctioned between June 2012 - May 2013.

- **Ms. Maya Chodankar, Ms. Kajal Kerkar, Ms. Alisha Dias**, 'Compliance assessment Survey of prohibition of smoking in a Public place rules, 2008, under COTPA 2003', International Union against Tuberculosis and Lung diseases, New Delhi, Rs.1.44 Lakhs.

Conferences/Workshops Organized:

- Seminar 'Self Defence' organized by Department of Physical education in association with Krav Global System, 14 February 2013.
- Celebrated 'World Tourism Day' at Goa State Museum Auditorium, Patto, Panjim, Goa, 1 October 2012.
- Workshop 'Theatre and Drama', 1 March 2013.

Publications:

Research papers in Journals

Foreign

-

Indian

03

Papers presented in Conferences/Seminars/Workshops:**Abroad: -****Within India: -****Within Goa: 01****Any other information:**

- Organized an intercollegiate event 'Metora 12', 4-5 December 2012.
- Organized Inter Class Media Festival 'Prime Time', 28 February 2013.
- Organized an intercollegiate IT Fest 'Colossus', 15-16 February 2013.
- Organized a 'Blood Donation Camp' in collaboration with Lions Club of Mala, 16 February 2013.

Sports Achievements:

- **Mr. Muhibullah**, TYBBA won 'Second Place' in the 70 kg Body Building Competition held at Goa University.
- College secured 'Second Place' in the 'Inter-collegiate Euro Cup 2012 Sports Quiz', 29 June 2012 organized by Fr. Agnel College of Arts and Science.
- College Football team participated in the 'First Don Bosco Oratory Inter Collegiate 'Futsal Tournament', 17 - 21 July 2012.
- Won 'Runners-up' trophy in the S. P. Parvatibai Chowgule College 'Golden Jubilee Cup Intercollegiate Invitational Football Tournament', 13 -27 August 2012.
- **Mr. Soma Korgaonkar**, awarded 'Best Goalkeeper Award' at the 'Golden Jubilee Intercollegiate Football Tournament' organized by St. Xaviers College, Mapusa, 20-28 August 2012.
- College secured 'Gold medal' in Best March Past at the Goa University Athletic Meet 2012-13.
- **Mr. Shaunak Verekar**, won 'Silver medal' in Men 100M and 200M at the Goa University Athletic Meet 2012-13.
- **Mr. Atikesh Khedekar**, won 'Bronze medal' for Men's Javelin Throw at the Goa University Athletic Meet 2012-13.

- **Mr. Shaunak Verekar, Mr. Soma Korgaonkar, Mr. Aditya Velip and Mr. Babu Naik Arondekar**, won 'Bronze medal' in the Men's Relay team at the Goa University Athletic Meet 2012-13.
- **Mr. Atikesh Khedekar**, selected in the Goa University Volleyball Team for the 'West Zone Inter University Volleyball Men Championship', 2012-13 held at Patan, Gujarat.
- College won the 'Championship Trophy and cash prize of Rs. 20,000' at the 'Inter-College Tennis Ball Championship Trophy Invitational Cricket Tournament 2012' organized by Dhempo College of Arts and Science, Panjim, 4-6 December 2012.

5.26: Goa College of Pharmacy, Panaji

Year of Establishment: 1963.

College Address: Goa College of Pharmacy, 18 June Road, Panaji, Goa 403 001.

Principal's Details:

- **Name :** Dr. Gopalkrishna Rao
- **Contact No.:** 91 (0832) 2226883.
- **E-mail:** gcpprincipal@yahoo.com

Website: www.gcp.goa.gov.in

Vision and Mission Statement:

To impart advanced technology education in the discipline of Pharmacy in order to synchronize with the motto 'Education with Excellence'.

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 pharmaceutical, 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; 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: 26.

Sponsored Research Projects sanctioned between June 2012 - May 2013.

- **Dr. Gopalkrishna Rao**, 'Science of Scientific Writing for Publication in International Journals', 1 year, All India Council for Technical Education (AICTE), Rs. 2 Lakhs.

- **Dr. Arun B. Joshi**, 'Photochemical and Pharmacological investigation of the Plant Desmodium Oojeinense (ROXB) H. Ohashi, 2012-13', 3 years, Department of Science, Technology & Environment (DSTE), Government of Goa, Rs. 9 Lakhs.
- **Dr. M.P. Joshi**, 'Strengthening of PG Pharmacology Laboratory, All India Council for Technical Education (AICTE), Rs.7.85 Lakhs.
- **Dr. Sanjay Pai P. N.**, 'Modernisation of facilities at Pharmaceutical Analysis Laboratory' 2012-13, 1 year. All India Council for Technical Education (AICTE) MODROBS Grant, Rs.20 Lakhs.

Conferences/Workshops Organised:

- Workshop 'What Next in Pharmacy', 6 January 2013.
- Workshop 'Tablet Coating and Demonstration', 7 November 2012.

Publications:	Foreign	Indian
Research papers in Journals	16	09

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 01 **Within Goa:** -

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Any other information:

- **Dr. Gopalkrishna Rao**, nominated member of Scientific Services Committee by Indian Pharmaceutical Congress Association.
- **Shri R. V. Keny**, International patent published.

5.27: Goa College of Engineering, Farmagudi

Year of Establishment: 1967.

College Address: Farmagudi, Ponda Goa.

Principal's Details:

- **Name:** Dr. Rajesh B. Lohani
- **Contact No.:** 91 (0832) 2336301.
- **E-mail:** pp1@gec.ac.in

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. - 60, B. E. Mech Engg. - 60, B. E. Electrical & Electronics Engg. - 60, B. E. Electronics & Telecommunication Engg. - 60, B. E. Computer Engg. - 60, B. E. Information Technology Engg. - 60, B. E. Mining Engg. - 30, M. E. Foundation Engg. - 30, M. E. Industrial Engg. - 18, M. E. (ETC) ECI Engg. - 15, M. E. (ETC) Microelectronics Engg. - 15, M.E. Power & Energy - 18, M. E. Computer Sci. Engg. - 18, InD. Auto. & RF - 18.

Faculty strength: 65, Contract: 74

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

Civil, Smt. Nisha P Naik, IIT Bombay.

IT , Prof. Nilesh Fal Dessai, Director of Information technology, Prof. Vijay Borges, Phd, Prof. Aisha Fernandes, Phd.

Achievements of the College:

- Won 'First Place' in 'SURGE -2013' organized by KLE Belgaum, February 2013.
- Won 'First Place' in 'TATVA-2013' Salgaonkar Law College, March 2013.
- Place in Top 5 in 'Youth Brigade – Agent of change' organized by Times of India, July 2013.
- Organised National Conference 'Modern Trends in Advanced Computing' 17-18 May 2013.
- College got provisionally accredited for 2 years by National Board of Accreditation, New Delhi.
- Organised Technical festival 'TECHNIX' by Undergraduate students of Computer Engineering.

Sponsored Research Projects sanctioned between June 2012 - May 2013.

- **Mr. Chetan Desai, Mr. ShajahanKutty,** Design of switched beam microstrip patch antenna array for 2.3 to 2.7 GHz, 30 May 2013, Department of Science Technology and Environment, Government of Goa, Rs. 7 Lakhs.

Ongoing Projects/Completed during June 2012 - May 2013:

- **Prof. D. V. Shirodkar,** 'Design and fabrication of automated food cooking machine', 1 year, Department of Science, Technology and Environment, Rs. 0.52875 Lakhs.
- **Dr. Vinayak N. Shet,** 'Information Security Education and Awareness, September 2005, Ministry of Communication', Department of Information Technology, Government of India, Rs. 40 Lakhs.

Conferences/Workshops Organized:

- 'Research Methodology', 24 June to 4 July 2012.
- 'Applied Thermodynamics', 17-25 December 2012
- Workshop 'Introduction to Simulink' 1-2 April 2013.
- 'Modern Trends in Advanced Computing', 17-18 May 2013.

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Sports Achievements:

- **Mr. Vishak Pillai**, won 'Third Place' at the West Zone India Power Lifting Federation.
- **Mr. Gautam N. Gaude and Mr. Gabriel Almeida**, represented Goa University in the Base Ball Championship at Delhi.
- 'Runner up' Women Table Tennis (Women) at the Inter-collegiate Championships, Goa University.
- 'Winners' Women Chess (Women) at the Inter-collegiate Championships, Goa University.
- Won 'Bronze medals' Swimming (Men and Women) at the Inter-collegiate Championships, Goa University.
- Won 'Silver medal' Weight Lifting (Men) at the Inter-collegiate Championships, Goa University.
- Won 'Silver medal' Power Lifting (Men) at the Inter-collegiate Championships, Goa University.
- Won 'Bronze medal' Best Physique (Men) at the Inter-collegiate Championships, Goa University.
- **Mr. Vishak Pillai**, won 'First Place' in Power Lifting and 'Third Place' in Body Building at the Inter-collegiate Championships, Goa University.

5.28: Nirmala Institute of Education, Panaji

Year of Establishment: 1963.

College Address: Nirmala Institute of Education, Altinho, Panaji Goa, 403 001.

Principal's Details:

- **Name:** Dr. Rita Paes
- **Contact No:** 9421150675
- **E-mail:** niegoa@gmail.com

Website: www.nirmalainstitute.org

Vision and Mission Statement:

Vision: 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: 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: 09

Achievements of the College:

- Institute celebrated the Golden Jubilee Celebrations and conducted series of workshops during the year.

Conferences/Workshops Organized:

- National Seminar-cum-Workshop 'Education for Social Change' jointly organized with Xavier Centre of Historical Research (XCHR), Porvorim, Goa, at XCHR, Porvorim, 18-19 January 2013.
- 'Towards Educational Excellence', 28-29 July 2012.
- 'Creating Positivity', 1 September 2012.
- 'Continuous Comprehensive Evaluation', 8-9 September 2012.
- 'Teaching Prose and Poetry in English', 7 December 2012.
- Conducted 'CAL (Computer Assisted Lessons)' for Std. X in Geography, 22, 25 and 28 August 2012.
- 'Environmental Education, 14, 15 and 18 March 2013.
- 'Use of Technology in Education', 16-18 August 2012.
- 'Strategies for Teaching Science', 9 October 2012 and 12 March 2013.
- 'Preparation of Teaching Learning Materials (TLM) using the Computer Phase I and Phase II, 15, 16, 22, 23, 29, 30 January 2013, and 5, 6, 12, 13, 19 and 20 February and 6 March 2013.
- 'Strategies for teaching Konkani value - based lessons and grammar lessons (Std V-VII), 12, 14 and 17 December 2012.
- Teaching Science Process Skills (for Science teachers), 10, 17, 29 September 2012.
- Portfolios & CCE (all subjects), 20, 29 October and 3 November 2012.

Publications:	Foreign	Indian
Research papers in Journals	-	02

Papers presented in Conferences/Seminars/Workshops:
Abroad: - **Within India:** - **Within Goa:** 10

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

Any other information:

- **Dr. Rita Paes**, won 'Dr. Sam Higginbottom Award for the Best Principals of India 2011', presented by AIACHE (All India Association for Christian Higher Education).
- **Dr. Rita Paes**, presented 'The Outstanding Goan Award' from the True Values Foundation, Margao, Goa.
- The B.Ed Teacher Trainees attended the 18th Goa Yuva Mahotsav held at the St. Joseph's High School Ground, Pernem, 12-13 January 2013.
- Celebrated Wiki Women's Day, 8 March 2013.
- Organized 'Dry Waste Segregation Campaign' at Miramar in collaboration with the Corporation of the City of Panaji, 11-12 March 2013.
- Conducted 'Orientation programme' for the students at the CCP collection centre at St. Inez, 6 March 2013.
- Presented a 'Cultural Fest of Goa' at Kala Academy in association with V-Events, 31 March 2013.

5.29: Goa College of Art, Altinho, Panaji

Year of Establishment: 1972.

College Address: Altinho, Panaji.

Principal's Details:

- **Name:** Shri Mahesh V. Vengurlekar
 - **Contact No.:** 91 (0832) 2226104.
- 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:

- 'Presentation Techniques', 2-3 July 2012.
- Workshop 'Madhubani', 1-6 October 2012.
- Workshop 'Sculpture', 8-12 October 2012.

- Workshop 'Portraiture', 16 January 2013.
- Workshop 'Drawing (Head Study)', 4-8 March 2013.
- Workshop 'Photography Techniques', 30 August 2013.
- Workshop 'Typography', 11-12 July 2013.

Any other information:

- Students participated and won prizes at the 'Inter College festivals of Tatva' organized by Salgaonkar College of Law and K-OSS of Dhempe College.

Sports achievement:

- **Mr. Rohitesh Manjrekar and Mr. Rahul Mayenkar**, won 'First Places' in the 'Inter Collegiate Body Building Championship-2012'.
- **Mr. Rohitesh Manjrekar and Mr. Rahul Mayenkar**, secured 'Team Championship - Winner's and 'Champion of Champions' Organized by Rosary College, Navelim, September 2012.
- **Ms. Nikita Naik**, won 'First Place' in the Swimming Competition organized by Goa University, August 2012.
- **Ms. Annapoona Mallya**, won 'First Place' in Womens-63 Kg Judo for 'Krida 2012' organized by Goa University Students' Council, 13-15 December 2013.

5.30: 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. K. S. Rao
- **Contact No:** 91 (0832) 2462225.
- **E-mail:** vmscl@rediffmail.com

College Website: www.vmslaw.edu

Vision & Mission Statement:

- **Vision:** Excellence in legal education in pursuit of justice and service to humanity.
- **Mission:** Let justice be done though the heavens fall.

Courses offered: LL.B. - 180, B. A. LL.B. - 120, and LL.M. - 50.

Any new course started: LL.B Honours converted to B.A LL.B from 2012-13.

Faculty strength: 12

Teachers deputed for higher studies under FIP: Kim Couto (FIP).

Achievements of the College:

- 'A' grade at re-accreditation by NAAC.

Conference/Workshop organized:

- State Level Colloquium by Law Club, 8 February 2013.

Publications:	Foreign	Indian
Research papers in Journals	-	05

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** - **Within Goa:** 04

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Sports achievements:

- College secured the 'Runners up' position in the 'Five side Beach Football', 17-21 July 2012.
- Won 'Third Place' in the 'Three side Beach Football', 17-21 July 2012.
- **Ms. Alisha Valadares**, 'Runner up' in the Carrom Tournament organized by G.V.M's College, Ponda, 12 September 2012.
- **Mr. Vishwas Fernandes**, won the Carrom Tournament organized by G.V.M's College, Ponda, 12 September 2012.
- **Mr. Vishwas Fernandes**, represented Goa University team for cricket held in Gujarat in Dec 2012.
- **Mr. Harshad Dhulapkar**, represented Goa State in 'Body Building' held at Gokak, Karnataka, 25 November 2012.
- **Mr. Harshad Dhulapkar**, won 'Mr. Goa Title' at the Body Building Championship held at Margao, 11 August 2012.
- **Ms. Divya D'Mello**, represented Goa state in Senior National and Inter-state Table Tennis Championship at Raipur, Chattisgarh, 7-12 January 2013.
- **Ms. Divya D'Mello**, ranked first in 'Goa Women's Table Tennis' in September 2012.
- **Ms. Divya D'Mello**, participated in the 'Adv. Madhavrao Memorial State Championship' organised by Panjim Gymkhana, Margao Cricket Club, Rotary Club Panjim and Don Bosco Panjim, October 2012.
- **Ms. Nandini Kedilaya**, represented Goa State in Boxing (women) held at Guwahati, Assam, 25-29 November 2012.
- **Ms. Hemanigi E. Kawlekar**, represented Goa State in Softball at Bhubaneswar, 25 -30 December 2012.

5.31: Govind Ramnath Kare College of Law, Margao

Year of Establishment: 1979.

College Address: P.O. Box 777, Tansor, Comba, Margao Goa, 403 601.

Principal's Details:

- **Name:** Arun Sazu Nadkarni
 - **Contact No:** 9850455385
 - **E-mail:** karelaw_goa@rediffmail.com / grkarelaw_goa@rediffmail.com
- 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) - 172, L. L. B. (Hons.) -140, LLM - 38, Diploma in Labour Law - 20.

Faculty positions: 08.

Achievements of the College:

- 'B' grade at re-accreditation by NAAC.

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 01 **Within Goa:** -

5.32: Goa Dental College and Hospital, Bambolim

Year of Establishment: 1980.

College Address: Goa Dental College & Hospital, Bambolim Goa 403 202.

Principal's Details:

- **Name:** Dr. Ida De Noronha De Ataide

College Website: <http://gdch.goa.gov.in>

Courses offered & sanctioned strength: BDS - 40 seats; MDS - 15 seats.

Faculty strength: 37

Achievements of the College

- Acquired Mobile Dental Van to extend Dental Services to the Rural Areas.

Conference/Workshop Organized:-

- Department of Orthodontics organized CDE Symposium 'Excel-O-Gnathics', 20-21 January 2013.
- Department of Prosthodontics organized Workshop 'Full Mouth Rehabilitation' July 2012.
- Department of Oral and Maxillofacial Pathology organized 'XXI National Conference of the Indian Association of Oral and Maxillofacial Pathology', 26-28 October 2012.

Publications:	Foreign	Indian
Research papers in Journals	15	22
Books	01	

Papers presented in Conferences/Seminars/Workshops:

Abroad: 01 Within India: 09 Within Goa: 10

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Other information:

- **Dr. Sandeep Lawande**, awarded '**Best Social Worker Award**' by Directorate of Social Welfare, Government of Goa, 19 December 2012.
- **Dr. Sandeep Lawande**, won '**Ideal Book National Award**' from Akhil Bhartiya Kala Sahitya Sankruti Academy, Wardha Maharashtra **for his book** 'Secrets of Dental Care', January 2013.
- **Dr. Nupur Kharangate**, awarded 'Third Prize' for the poster 'Chlorhexidine: Chemical applications in Dentistry' at the Colgate IDA Dental Professionals program, August 2012.
- **Dr. Mayuri Naik**, won 'Best Paper Award' for the paper 'Non surgical management of Periapical lesions - case reports', presented at the 10th Goa State IDA and 7th World Zoroastrian Conference, September 2012.
- **Dr. Mayuri Naik**, awarded 'Third Prize' for the paper 'Management of Complicated crown root fracture by reattachment: case reports' presented at the 1st National Talent search program, held by CKS Theja Dental College, Thirupathi, September 2012.
- **Dr. Shubhlaxmi a/s Shweta Caculo**, won Best Paper Award' for the paper 'Hollow dentures: A lighter option for atrophic ridges: A case report' at the 10th Goa State Dental Conference, 7-9 September 2012.
- **Dr. Ronak Shah**, won 'Best Paper Award' for the paper 'Colour Science and Shade Selection' at the 10th Goa State Dental Conference, 7-9 September 2012.
- **Dr. Godwin Clovis Da Costa**, won 'Best Paper Award' for the paper 'Esthetics in complete denture' at the 10th Goa State Dental Conference, 7-9 September 2012.
- **Dr. Bhavya Amin**, won Best Paper Award' for the paper 'Esthetics in Complete Denture' at the 40th IPS Conference Chennai, 5-9 December 2012.

5.33 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:** 91 (0832) 2227144/ 2436435.
- **E-mail:** gca.principal@gmail.com

Website: <http://gcarch.goa.gov.in> & Email ID- gca.principal@gmail.com

Courses offered, sanctioned and filled strength: Bachelors in Architecture (5 years degree course), Sanctioned strength - 40 (+4), Filled strength - 40 (+2)

Faculty strength: 12, Contractual Faculty: 4.

Achievements of the College:

- Formation of new Advisory Committee for Goa College of Architecture for a term of 3 years by Government of Goa.
- Renewal of the Academic Chair for Goa College of Architecture for the year 2013 with the revised remuneration.
- Completion of New Curriculum in April 2013, with the help of the Academic Chair and faculty.

Sponsored Consultancy Work undertaken:

- **Prof. A. K. Rege, Ar. Vishvesh Kandolkar, Ar. Neelesh U. Juwarkar, Ar. Om Prabhugaonkar**, Indoor Auditorium, Goa University, 2 years, Rs. 3.2 Lakhs.

Conferences/Workshops Organized:

- Workshop 'Mass Housing: Issues and Approaches', 19-24 July 2012.
- Conducted 'Orientation Programme', 29 July – 7 August 2012.
- Workshop 'Convergence of Music and Paintings in Architecture' 25-27 September 2012.
- Workshop 'Heritage and Rehabilitation', 26-27 November 2012.
- Workshop 'Services in Buildings for working drawing Project' 26-27 November 2012.
- Workshop 'Urban Design' 14-15 March 2013.

Publications:

- '**Working Paper Series 2012-2013**', a Technical Publication of Goa College of Architecture based of Research Dissertation.

Papers presented in Conferences/Seminars/Workshops:

Abroad: 01 **Within India:** - **Within Goa:** -

Any other information:

- **Prof. Ashish K. Rege**, appointed Goa State Nominee Member of Council of Architecture, India at New Delhi.
- **Prof. Ashish K. Rege**, elected Chairman of the Goa Chapter of Institute of Town Planners, India.
- **Hiba Shaikh**, won 'Third Place' for Slogan Writing and Poetry Recitation in the 'Struggle for Freedom', organized by Entertainment Society of Goa in August 2012.
- College won First Place in the 'Television Group' at the Inter Higher Secondary and College Festival organized by Student's Islamic Organization of India, September 2012.
- College participated and won prizes in the Inter Collegiate Festival 'TATVA' organized by Salgaokar College of Law, Miramar, January 2013.
- College participated and won prizes in the Inter Collegiate Festival 'PSYGNUS' organized by St. Xaviers College, Mapusa, December 2012.
- College participated and won prizes in the Inter Collegiate Festival 'CREATIONS' organized by Dhempe College of Arts and Science, Miramar, February 2013.
- College participated and won prizes in the 'Inter Collegiate Debate Competition', organized by 'International Centre' March 2013.

5.34: 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.:** 91 (0832) 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, Performing Arts - 20, Performing Arts - 6.

Faculty strength: 06

Number of teachers who obtained research degree during the year:

Ph. D.: 01

Any other information:

- **Kum. Lata Mahadev Mangelkar**, a Vocal student, awarded 'Late Smt. Vilasini Kane Memorial Award' for securing first place in the Second Year Master of Performing Art in Vocal Music Examination, April 2012, sponsored by Goa Hindu Association, Mumbai.
- **Kum. Diksha Punaji**, Vocal Student and **Shri Pushpashil Malik**, Tabla student awarded 'Late Kamlabai Hede Memorial Prize' for securing first place at the Bachelor of Performing Arts Final Examination in Voca and Tabla discipline.

5.35: 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
- **E-mail:** inegoabam@gmail.com

Website: www.dhsgoa.gov.in

Philosophy:

The faculty

- 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: 21

Conferences/Workshops Organised: -

- 'Medication Errors and Clinical Pharmacology in Nursing Practices', 9 November 2012.

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 07 **Within Goa:** 01

5.36: G. V. M's College of Education, Ponda

Year of Establishment: 1993.

College Address: P.O. Box 139, Farmagudi Ponda Goa 403 401.

Principal's Details:

- **Name:** Dr. Allan J. Abreo
- **Contact No.:** 91 (0832) 2335089/ 2335880.
- **E-mail:** gym.educol@gmail.com

Website: www.gymcollege.com

Mission and Vision Statement:

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.

Vision: 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.

Courses offered & sanctioned and filled strength: Course: B.Ed. - 100

Faculty strength: 10

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 02 **Within Goa:** 02

5.37: B. S. P's Gomantak Ayurveda Mahavidyalaya & Research Centre, Shiroda

Year of Establishment: 1993.

College Address: Vajem, Shiroda, Goa 403 103.

Principal's Details:

- **Name:** Dr. Anura P. Bale
- **Contact No. :** 9822589751
- **E-mail:** bale_anura@rediffmail.com

Website: www.gamrc.org

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' 6- 8 September 2012.

Conferences/Workshops organized:

- Workshop 'Kaumarbhritya on 10 years completion to Suvarnaprashan' 27 April 2013.
- Workshop and Infertility camp, 18-19 January 2013.

Publications:

Books

Foreign

-

Indian

01

Papers presented in Conferences/Seminars/Workshops:

Abroad: -

Within India: -

Within Goa: 04

Any other information:

- 'Death Certification Programme' 23 March 2013.
- 'CME' by Directorate of Health Service and Goa Board of Indian System of Medicine and Homeopathy, 24-25 May 2013.

5.38: Goa Medical College, Bambolim

Year of Establishment: 1963.

College address: Goa Medical College, Bambolim.

Principal's Name: V. N. Jindal.

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 and Social Medicine MD - 2, DPH - 2, Biochemistry MD - 2, General Medicine MD - 5, General Surgery MS - 6, Obstetrics and Gynaecology MD - 5, DGO - 4, Anesthesiology MD - 4, DA - 4, Orthopedics MS - 3, Ophthalmology MS - 3, Pediatrics MD - 3, DCH - 4, Skin and V.D. MD - 1, DVD - 2, Radio Diagnosis MD - 2, DMRD - 4, Psychological Medicine MD - 2, DPM - 2, T.B. and Chest Diseases MD - 3, E.N.T. MS - 3.

Faculty strength:

Dermatology, Venereology & Leprology: 4; Anatomy: 11; ENT: 5; Pharmacology: 10; Preventive and Social Medicine: 15; Biochemistry: 8; Microbiology: 11; Physiology: 13; Pulmonary Medicine: 20; Orthopedics: 5; Surgery: 10; Pathology: 17.

Achievements of the College:

- College was awarded 'S. S. Lahiri Trophy' for interdepartmental research in Goa Medical College for the year 2012.
- **Dr. Amit Dias**, Department of Preventive and Social Medicine, recipient of Research Fellowship Award from Edith Cowen University, Australia.
- ENT Department is the only department offering MS-ENT course which is recognised by MCI, New Delhi.

New course(s) started:

Paramedical Courses started from 2nd September 2013 in the Department of Biochemistry: B.A.T - 20, B.O.T - 10, B.P.T. - 10, M.I.T - 10, B.O.P.T - 10. Department of Anesthesia started BSc Anesthesiology.

Sports achievements:

- **Dr. Ankush B. Patil**, won the State level Civil Services Badminton Tournament, 2012-2013
- **Dr. Ankush B. Patil**, represented Goa State at National Level Civil Services Badminton Tournament held at Bangalore, 2012-2013.
- **Ms. Sneha Naik**, student participated in the 4th West Zone Taekwondo Championship.

Conferences/Workshops organised:

- Department of Anaesthesia organized Conference 'Comprehensive Anaesthesia care in High Risk Obstetrics'.
- Department of Obstetrics and Gynaecology Organized Post Graduate Program 'Force 2013' in collaborate with All India FOGFI and Panaji OBG Society, 23-25 September 2013.
- Department of Orthopaedics organized 'Spine Scoliosis Workshop', 'Paediatric and orthopaedic Workshop' and 'Arthroscopy Workshop'.
- Department of Preventive and Social Medicine organized Workshop 'Biostatistical Data Analysis' April 2013.
- Department of Preventive and Social Medicine organized Workshop 'National Vector Borne Disease Control', 27 February to 1 March 2013.

Publications:	Foreign	Indian
Research papers in Journals	12	35
Books:	-	01

Papers presented in Conferences/Seminars/Workshops:

Abroad: 12 Within India: 84 Within Goa: 98

Other information:

- **Dr. P.V. Rataboli**, awarded 'Bharat Shiksha Ratan award' by Global Achievers Foundation, New Delhi, May 2013.

5.39: Shri Kamaxidevi Homoeopathic Medical College and 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.:** 91 (0832) 2306842/ 2307441/42.
- **Fax No.:** 0832 - 2307001
- **E-mail:** drsdnaik01@gmail.com

Website: www.homoeopathycollegegoa.org

Vision and Mission Statement:

Mission: We, at Shri Kamaxidevi Homoeopathic Medical College & Hospital, Shiroda, Goa, Commit ourselves for excellence in Homoeopathy Education and Research and to prepare responsible professionals to reach the heights and to serve the humanity.

Courses offered: BHMS Degree Course – 50.

Faculty Strength: 32

Conferences/Workshops organized:

- Seminar 'Homoeopathic management of Diabetes Mellitus - Type 2', 7 September 2012.
- Seminar 'Efficacy of Homoeopathic Treatment in Acute Illnesses', 16 October 2012.
- Lecture Series - Guest Lecture by Dr. G. S. Johar, Homoeopath forms (UK), 'Experience on Clinical Practice, 16 January 2013.
- 'Goa School 2013' Clinical Training Programme for SHI (Switzerland) delegates, 28 January 2013 to 16 February 2013.
- Lecture Series - Guest Lecture by Dr. Henning Gypser, Director, Glees Academy of Homoeopathic Physician, Germany, 7 February 2013.
- Lecture Series - Guest Lecture by Dr. Heike Gypser, Glees Academy of Homoeopathic Physician, Germany, 7 February 2013.
- Workshop 'Medical Certification of Cause of Death', 30 March 2013.
- Seminar 'Homoeopathic Practice in Paediatric', 9-10 April 2013.
- Workshop 'Approach to patient in Clinical Practice', 12 April 2013.

5.40: National Institute of Hydrography, Vasco-Da-Gama

Year of Establishment: 1978.

College Address: c/o Headquarters, Goa Naval Area, Vasco-da-Gama 403 802.

Principal's Details:

- **Name:** Capt. Rajesh Bargoti
- **Contact No.:** 91 (0832) 2582800
- **E-mail:** info-nih.goa@nic.in

Website: www.nihgoa.gov.in

Vision and Mission Statement: Towards excellence in moulding "PATHFINDERS FOR SEAFARERS" through Collective wisdom and team effort.

Courses offered and sanctioned strength: M. Sc. (Hydrography) (Foreign and Indian Naval Officers)-15.

Faculty Strength: Officers-08, Sailors-22

Conferences/Workshops organised:

- Workshop 'CARIS HIPS and SIPS', 25-27 July 2012.
- Workshop 'ADCP', 22-23 Oct 2012
- Workshop 'Multibeam Echo Sounder' 29-30 October 2012.

- Workshop 'QINCY and FLEDERMAUS' 29-30 October 2012.
- The Institute celebrated 'World Hydrography Day 2012', 21 June 2012.
- Workshop 'Survey Equipments Maintenance, 16-17 March 2013.

Publications:	Foreign	Indian
Research papers in Journals	-	02

Papers presented in Conferences/Seminars/Workshops:
Abroad: - **Within India:** 02 **Within Goa:** -

Conferences/Workshops attended:
Abroad: - **Within India:** 01 **Within Goa:** -

5.41: 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.

Website: www.pcegoa.org

Courses offered and sanctioned strength: Bachelor of Computer Engineering - 63; Bachelor of Electronics and Telecommunication Engineering - 63; Bachelor of Mechanical Engineering - 63; Bachelor of Information Technology - 63; Master of Engineering in Information Technology - 18.

Faculty strength: 72.

Teachers deputed for higher studies under FIP: 02

Sports achievements:

- Runners up, Table Tennis (Men) in the Inter-collegiate tournament.
- Won Table Tennis (Women) in the Inter-collegiate tournament.
- Runners up, Chess (Mix) in the Inter-collegiate tournament.
- Won 1 'Silver medal' and 2 'Bronze medals' in Swimming (Men), 1 'Gold medal' and 1 'Bronze medal' in Weightlifting (Men), 1 'Gold medal' and 1 'Bronze medal' in Power lifting (Men) and 1 'Gold medal' in judo (men).
- **Ms. Marolif Fernandes**, student represented the Goa State Team and secured 'Silver medal' in the 'Zonal Taekwondo Nationals' held in Pune, July 2012.
- **Mr. Vishal Naik**, represented Goa University in the 'All India Inter University Taekwondo Championship' held at Chandigarh, January 2013.

Conferences/Workshops Organised

- International Conference 'Operator Algebras in Non-Equilibrium Statistical Mechanics', sponsored by National Board for Higher Mathematics - DAE, Science and Engineering Board - DST, Jawaharlal Nehru Center for Advanced Scientific Research - DST and the Council of Scientific and Industrial Research and organized by the Department of Basic Sciences and Humanities in association with the Department of Mathematics, Goa University at Bambolim Beach Resort, 17-21 December 2012.

Publications:	Foreign	Indian
Research papers in Journals	03	-

Papers presented in Conferences/Seminars/Workshops:

Abroad: 04 **Within India:** - **Within Goa:** -

5.42: 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:** 91 (0832) 6482030/ 2732663.
- **E-mail:** imtr_goa@yahoo.com

Website: www.imtrgoa.com

Vision and Mission Statement:

Vision: The Institute aims to be a major provider of top quality education and training in the Country.

Mission: To upgrade the knowledge, skills and attitudes of adults through Management and Training programmes to enhance the effectiveness at the workplace.

Courses offered, sanctioned and filled strength: Post Graduate Diploma in Business Administration (PGDBA) - 45 and 41.

Faculty strength: 12

Achievements of the College:

- Conducted several programmes for senior IFS Officers from all over the Country, sponsored by Ministry of Environment and Forests (MoEF), New Delhi.
- Conducted programmes for Scientists and Technologists from all over the Country, sponsored by DST, New Delhi.
- Conducted a wide range of programmes for Private and Government Organisations all over Goa. These included 'Stress Management', 'Communication and Presentation Skills', 'Managerial Effectiveness Enhancement Programme', 'Motivation Mantras', 'Managing Change in Government Organizations'.
- Reached out to various Colleges and Schools to upgrade the skills of lecturers and teachers.

5.43: INS Hamala, Marve, Malad (W), Mumbai

Year of Establishment: 1954.

College Address: INS Hamla, Marve Malad (W), Mumbai, 400 095.

Principal's Name: CDR Sankardeep Bharal

Courses offered and Sanctioned strength: MBA (LM) - 20.

Faculty Strength: 17.

Achievements of the College:

- AICTE accreditation obtained.
- Enhancement in Training and Administration infrastructure.

Conferences/Workshops attended:

Abroad: - **Within India:** 08 **Within Goa:** -

5.44: Shree Rayeshwar Institute of Engineering and Information Technology, Shiroda

Year of Establishment: 2001.

College Address: Shivshail, Karai, Shiroda Goa 403 103.

Principal's Details:

- **Name:** Dr. B.N. Shanthapriya
- **Contact No.:** 91 (0832) 2307001
- **E-mail:** ar_ritgoa@yahoo.com

Website: www.ritgoa.com

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 and Telecommunication Engineering - 60; Computer Engineering - 61; Information Technology - 41.

Faculty Strength: 55.

Achievements of the College:

- ‘Certification of Appreciation’ by TCS under Institute-Industry Interaction Activities.
- Won ‘Gold Medal’ in All Goa Inter-university Taekwondo Championship.

Sponsored Research Projects sanctioned between June 2012 - May 2013:

- **Prof. Sangam Borkar**, ‘Wi-Fi Hotspot’, 9 months, Stallion IT Solution and Services, Porvorim, (Technical support only).

Conferences/Workshops organized:

- Workshop ‘Project Management’, 31 July 2012.
- ‘Tech- Twister’, National Level Technical Events, 1-2 March 2013.
- Workshop ‘Employability Skills Set’s Development’ 19-21 and 26-27 April 2013.

Publications:

Research papers in Journals

Foreign

15

Indian

-

Papers presented in Conferences/Seminars/Workshops:

Abroad: -

Within India: 04

Within Goa: 10

Any other information:

- **Prof. Sangam Borkar** and **Prof. Shailendra Aswale**, awarded Memento and Certificate for outstanding service as teaching faculty during the Silver Jubilee Celebration of Shivgram Education Society, May 2013.
- **Mr. Vinay Naik** and **Mr. Vasant Gaikwad** awarded Memento and Certificate for outstanding service as non-teaching faculty during the Silver Jubilee Celebration of Shivgram Education Society, May 2013.

Sports Achievements:

- Won ‘Gold medal, in All Goa Inter-University Taekwondo Championship.
- Organised All Goa ‘Rapid Chess Competition’ 9-10 February 2013.

5.45: P. E. S. College of Education, Farmagudi, Ponda

Year of Establishment: 2004.

College Address: Farmagudi, Ponda Goa 403 401.

Principal's Details:

- **Name:** Dr. Geeta M. Iyer
- **Contact No.:** 9970820138.

College Website: pes-bedcollege.com

Vision and Mission Statement: Community Enlightenment through Progressive, Prospective and Quality.

Courses offered and Sanctioned strength: B. Ed. - 100.

Faculty Strength: 7.

5.46 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.:** 91 (0832) 2720071/ 2720062.
- **E-mail:** antao_maria@yahoo.com

Website: 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

Faculty strength: 14/15

Achievement of the College:

- Final year BSc Nursing results – 100%.

Conferences/Workshops Organized:

- Seminar 'Prevention and Management of RTA', 24 July 2012.
- Workshop 'How to present a Street play', 25 August 2012.
- Seminar 'CPR', 30 August 2012.
- Workshop 'Healthy eating habits for adolescence', 6 September 2012.
- Workshop 'Team Building', 19 January 2013.
- Workshop 'Trends in Nursing', 16 March 2013.

Any other information:

- Conducted 'Blood Donation Camp'.
- Conducted 'AIDS and Tuberculosis Surveillance Camp' in the Community.
- Conducted 'Dental Screening Camp' in collaboration with PHC for school children in the Community.
- Conducted 'Physical Examination Camp' in the Community in collaboration with Government Medical Officers.

5.47: 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.:** 9619198309
- **E-mail:** bhavanig70@yahoo.com, gangabhavani259@gmail.com

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: 10

Achievements of the College:

- NA's State Level Competition held for the year 2013 in Vrundavan Institute of Nursing Education by TNAI. VINE's 9 students won the first place in the competition and 4 students in the Sports events.

- College participated in 'All India Level SNA' Conference 2013'at Surat, Gujarat.
- Conducted 'NSS Special Camp', 2013.
- Staff participated in various workshops conducted in collaboration with Red Ribbon Club, Goa, Diabetes Society of Goa and Vrundavan Shalby Hospital, Goa.

Publications:	Foreign	Indian
Research papers in Journals	03	-

Papers presented in Conferences/Seminars/Workshops:
Abroad: - Within India: 01 Within Goa: -

5.48: Institute of Psychiatry and Human Behaviour, Bambolim

Year of Establishment: 1980.

College Address: Institute of Psychiatry and Human Behaviour, Bambolim.

Principal's Details:

- **Name:** Dr. V. N. Jindal, IPHB, Bambolim-Goa.
- **Contact No:** 91 (0832) 2458687

Website: www.iphb.goa.gov.in

Courses offered, sanctioned and filled strength: MD in Psychiatry - 2, Diploma in Psychological Medicine - 2.

Faculty strength: 7

Publications:	Foreign	Indian
Research papers in Journals	05	04

Papers presented in Conferences/Seminars/Workshops:
Abroad: - Within India: 02 Within Goa: 01

5.49: P. E. S's Rajaram and Tarabai Bandekar College of Pharmacy, Farmagudi, Ponda

Year of Establishment: 2007.

College Address: Farmagudi, Ponda Goa.

Principal's Details:

- **Name:** Dr. S. N. Mamle Desai

- **Contact No:** 8390773995
- **E-mail:** principalrtbcop@gmail.com

Website: www.pespharma.edu.in

Vision and Mission Statement:

Mission: 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; To establish and maintain an active and productive research enterprise for the discovery of new knowledge in the laboratory thereby enabling industry to provide cost effective drugs.

Vision: To become centre of excellence in Pharmaceutical education, research and technologies by: Attracting and retaining outstanding faculty and staff; Developing/Adapting effective teaching-learning processes; Strive to achieve academic excellence by adhering to its standrads for quality; Maintain a program of on-going faculty and staff development; Promote leadership in its students to further develop the profession; Pursue drug discoveries to improve quality to life and support and society; Promoting collaborative research for developing new drug delivery technologies; Attain value based pharmaceutical education, research and technology of global standard.

Courses offered, sanctioned and filled strength: B.Pharm. – 60 and additional 6 seats directly admitted to S.Y. B. Pharm. who have passed out Diploma in Pharmacy; M.Pharm (Pharmaceutical Chemistry) – 18.

Faculty strength: 16

Achievements of the College:

- A total of 22 students qualified 'Graduation Pharmacy Aptitude Test' conducted by AICTE, New Delhi.

Publications:	Foreign	Indian
Research papers in Journals	-	02

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 02 **Within Goa:** 01

Number of teachers who obtained research degree during the year:

Ph. D.: 03

5.50: Don Bosco College of Engineering, Fatorda, Margao

Year of Establishment: 2011.

College Address: Fatorda, Margao, Goa 403 602.

Principal's Details:

- **Name:** Dr. C. S. Gokhale
- **Contact No:** 9422061954
- **E-mail:** ppldbcegoa@gmail.com

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 being a witnessing community, empowering youth to be evangelizers, bringing about spiritual renewal, networking, and exploring and exploiting the opportunities available for livelihoods.

Courses offered, sanctioned and filled strength: Mechanical Engineering - 63, Electronics and Telecommunication Engineering - 61, Computer Engineering - 62, Civil Engineering - 62.

Faculty strength: 28

Sponsored Consultancy Work undertaken:

- **Dr. C. E. Quadros,** 'Design of a propeller for a hopper barge', Mr. Dilip Sawant, One month, Rs. 0.70 Lakhs.

Publications:

Research papers in Journals

Foreign

-

Indian

05

Papers presented in Conferences/Seminars/Workshops:

Abroad: -

Within India: 07

Within Goa: -

5.51: Goa College of Hospitality and Culinary Education, Cidade de Goa, Vaiginim Beach

Year of Establishment: 2011.

College Address: Cidade de Goa, Vainguinim Beach, Goa 403 004.

Principal's Details:

- **Name:** Ms. Zarine Lobo
- **Contact No:** 91 (0832) 2454545; 9859902471.
- **E-mail:** principal_ghc@cidadedegoa.com

College Website: www.goahospitalitycollege.com

Vision & Mission Statement: Creating ambassadors for Hospitality Excellence.

Courses offered, sanctioned & filled strength: Bachelor in Business Administration (Hospitality & Culinary Management): Sanctioned Strength-60, Filled in Strength- 41

Faculty Strength: 04

Conference /Workshops organized:

- Self Development Workshop 'Who Am I', 16-17 April 2013.

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 01 **Within Goa:** -

5.52: Agnel Institute of Technology and Design, Assagao, Bardez

Year of establishment: 2012.

College Address: Agnel Technical Education Complex, Assagao, Bardez.

Principals Details:

- **Name:**Dr. V. Mariappan
- **Contact No:** 91 (0832) 2268032
- **E-mail:**vm.aitdgoa@gmail.com

Website: www.aitdgoa.edu.in

Vision:A commitment to be a centre of excellence, incorporating the core values of intellectual integrity and fair play by providing education that is inclusive, broad based, research oriented and moulds its aspirants to the dynamic needs of society.

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-63, Computer Engineering-63, Electronics & Communications Engineering-63.

Faculty Strength: 12

Conferences/ Workshops Organised: 03

Publications:	Foreign	Indian
Research papers in Journals	12	-

Papers presented in Conferences/Seminars/Workshops:

Abroad: - **Within India:** 01 **Within Goa:** 01

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

Ph.D.: 01

5.53: Vidya Prabodhini College of Commerce Education, Computer and Management, Porvorim

Year of Establishment: 2012.

College Address: Vidyanagar, Porvorim, Goa.

Principal's Details:

- **Name:** Shri Sukhaji Gajanan Naik
- **Contact No.:** 9422449632
- **E-mail:** naiksukhaji@gmail.com

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.

5.54: Adarsha Institute of Management, Agali, Fatorda, Goa

Year of Establishment: 2009.

College Address: Agali, Fatorda, Goa 403 602.

Principal's Details:

- **Name:** Dr. Dilip D. Kare
- **Contact No:** 9881280404
- **E-mail:** ddkare2@gmail.com

Website: www.aimgoa.com

Vision and Mission Statement:

Vision: To build an educational institution renowned for high quality management education and research.

Mission: To provide high quality management education, so as to transform our students 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 - 18.

Faculty strength: 04

RECOGNISED INSTITUTIONS

6.0 List of Recognised Institutions:

6.1 Xavier Centre of Historical Research, Alto Porvorim

Name of the Director: Delio de Mendonça.

Website: www.Mrcindia.org

Courses/Degree for which the Institution is recognised: Ph.D.

6.2 National Institute of Malaria Research Panaji.

Name of the Director: Dr. Ashwani Kumar

Website: www.mrcindia.org

E-mail: ashwani07@gmail.com

Faculty/Scientist strength: 35

6.3 Directorate of Archives & Archaeology, Panaji

Name of the Director: M. L. Dicholkar.

Courses/Degree for which the Institution is recognised: Research institute for the purpose of obtaining the Ph.D. degree.

Website: <http://egov.goa.nic.in>

6.4 National Institute of Oceanography, Dona Paula

Name of the Director: Dr S. W. A. Naqvi

Courses/Degree for which the Institution is recognised: Ph. D. in Marine Science.

Website: <http://www.nio.org>.

Faculty/Scientist strength: 131.

6.5 Earth System Science Organisation-National Centre for Antarctic & Ocean Research (ESSO-NCAOR), Vasco-Da-Gama

Name of the Director: S. Rajan.

Courses/Degree for which the Institution is recognised: Ph. D.

Website: www.ncaor.gov.in.

Faculty/Scientist strength: 40(Regular) 16(Contract)

6.6 Thomas Stephens Konknni Kendr, Porvorim

Name of the Director: Pratap Naik, S. J.

Courses/Degree for which the Institution is recognised: Konkani Research work.

Website: www.tskk.org.

Faculty/Scientist strength: 6.

6.7 Fisheries Survey of India, Government of India, Ministry of Agriculture, Department of Animal Husbandry, Dairying & Fisheries, Mormugao

Name of the Director: Ajay Kumar Bhargava.

Courses/Degree for which the Institution is recognised: Ph. D.

Website: www.fsi.gov.in

Faculty/Scientist strength: 6.

6.8 **Syngenta Biosciences Pvt. Ltd.** Santa Monica Works, Corlimllhas, Goa, 403 110.

Name of the Director: Dr. Bhanu Manjunath

Courses/Degree for which the Institution is recognised: Ph. D.

Website: www.syngenta.com

Faculty/Scientist strength: 87

6.9 **ICAR, Research Complex for Goa Ela, Old Goa, 403 402.**

Name of the Director:

Courses/Degree for which the Institution is recognised:

Website:

Faculty/Scientist strength:

Student strength in Affiliated Colleges during the year 2012-2013.

Student strength in Departments on University Campus for the year 2012-13.

Subject	Part I		Part II		Part III		Total Students		
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Total
English	1	40	0	22			1	62	63
Hindi	5	23	1	21			6	44	50
Marathi	7	20	1	6			8	26	34
Konkani	3	40	3	35			6	75	81
French	0	3	0	3			0	6	6
Portuguese	2	8	1	3			3	11	14
Economics	7	33	3	22			10	55	65
History	2	33	0	23			2	56	58
Political Science	6	16	0	0			6	16	22
Sociology	0	21	3	12			3	33	36
Philosophy	0	3	0	4			0	7	7
CLAS	3	1	1	0			4	1	5
Chemistry	3	33	7	29			10	62	72
Computer Science	24	6	17	13	20	11	61	30	91
Earth Science	10	5	7	7			17	12	29
Mathematics	9	19	4	13			13	32	45
Physics	9	13	6	15			15	28	43
Electronics	13	2	8	7			21	9	30
Botany	3	19	2	15			5	34	39
Microbiology	3	12	2	10			3	12	15
Zoology	2	28	0	14			2	42	44
Marine Science	1	14	4	9			5	23	28
Marine Biotech	5	8	8	6			13	14	27
Commerce	4	36	5	33			9	69	78
M.F.S.	15	10	11	12			26	22	48
MBA	35	28	33	28			68	56	124
Grand Total	172	474	125	352	20	11	317	837	1154

Addresses at the 26th Annual Convocation of Goa University held on 7th January 2014

Shri Bharat Vir Wanchoo, Hon. Chancellor

- Shri. Ashank D. Desai, Founder and former Chairman, Mastek Limited,
- Dr. Satish R. Shetye, Vice-Chancellor,
- Dr. V.P. Kamat, Registrar,
- Members of the Court, Executive Council, Academic Council and other bodies of the University,
- Deans of Faculties, Principals of Colleges, Heads of Departments, Members of Faculties, Recipients of Degrees, Award Winners,
- Respected Citizens of Goa,
- Ladies and Gentlemen,
- My dear Students :

1. It is with great pleasure and also a sense of deep satisfaction that I participate today in this 26th Convocation of Goa University. This is an occasion of great joy and pride not only for the students who are being conferred with degrees but also for their families and friends. Let me first and foremost congratulate all the Graduates, Post graduates and Doctorates who have received their degrees and diplomas today. I would also, on this occasion, particularly like to compliment all the award winners who have been recognized for their outstanding performance and for their pursuit of excellence. As you progress in life and take on the challenges that lie ahead, you will remember this landmark day as an event that marked society's recognition of your ability to learn and your hard work and perseverance. I would also like to, at the outset, wish all the young students all the very best and a very bright future. I am reminded of someone who said and I quote : **"A graduation ceremony is an event where the commencement speaker tells thousands of students dressed in identical caps and gowns that 'individuality' is the key to success"**, unquote. This is something you need to remember at all times.

2. We are indeed very happy and I must say, also deeply privileged to have with us today Shri. Ashank D. Desai, former Chairman and Managing Director of Mastek Limited, an organization of world fame that he founded. To the citizens of this State, he is a proud son of Goa who symbolizes the entrepreneurial spirit that is very much desirable, to tap the opportunity that a world connected with high technology systems offers. In him we see the neighbourhood boy who grew up in the midst of the then modest academic institutions existing in the State and went on to excel from institutions outside the State, primarily due to sheer dint of hard work, perseverance, tenacity and excellence. He thereafter went on to establish organizations that today dot the globe providing services by using state of the art technologies. He has, therefore, brought laurels to not only Goa, but to our country as well and I am sure all Goans can bask in his reflected glory. To the graduating class of today, Shri Ashank D. Desai, therefore, personifies both a challenge and the great inspiration to meet that challenge. Goa University could not have found a better person to exemplify the spirit

of “yes we can”, a spirit that we all hope will help our State and our country to grab the opportunity that the globalized world of today offers to us Indians. It is a matter of great pride and privilege to have such a person address our graduates on the day that marks the commencement of the stage when they have to face the challenging world first hand. I extend a very warm welcome to Shri Ashank D. Desai to this campus of Goa University. Only last month, I had the very pleasant opportunity to honouring his revered mother in the remote taluka of Canacona.

3. On this important day, I would like to say that the State of Goa can justifiably be proud of what it has achieved since liberation in the field of higher education. It is satisfying and encouraging that one third of the eligible young women and men in the State enter the field of higher education. In our country as a whole less than a fifth of those eligible enjoy the privilege of higher education. An occasion like the convocation of the state’s only university is, therefore, not only the right occasion to rejoice on the access to higher education that the state has been able to achieve, but also an occasion to pledge ourselves to raising the numbers even further. For me, today is also an occasion when I can share my dreams and concerns in respect of the future of our university with a cross section of citizens who are intimately associated with higher education in the State.

4. While Goa has achieved a high rate of enrollment in the higher education sector, it is my cherished dream that Goa University should match this high level of access to education with an equally high quality of education and become a university that can serve as a role model for other state universities. Being a small university, the potential for raising standards and achieving excellence is very much there. Goa University must, however, keep in mind that it has to serve the bulk of the students of the State and not cater to only the most gifted ones. The university must constantly aim at lifting the standard and level of the student population as a whole and not just the ones with a consistently high performance. I truly believe that Goa University is ideally suited to take on the challenge of turning itself into a model university for three critical reasons. Firstly, the State of Goa has happily shown a willingness to invest in higher education by maintaining a healthy level of support consistently during the last few decades. In fact, per capita expenditure on higher education in Goa for the age group 18 to 23 is the highest amongst all states in the country. Secondly, the number of students in the university, about 27,000 at present, and the number of affiliated colleges, 50 and odd, are well within manageable limits. Thirdly, the Government of the State has shown willingness to respond constructively to well-founded requests for administrative support. In view of these three factors, the scope for turning Goa University into a role model and a centre for excellence is very much there and it is for all of us together to work towards that end. We owe it to the youth of the State.

5. What is needed is a frequent and continuous honest evaluation of all ongoing practices coupled with a burning desire to introduce changes that make up for the lacunae that emerge from the evaluation. This process of evaluation and updating must form an integral part of the culture and ethos of the university and its associated institutions and should be taken up and done with a sense of deep commitment and passion.

6. To my mind, a major and critical element that needs strengthening in our university education system is to inculcate among our students the much needed ability to innovate. Simply put, it is the ability to think on one’s feet to design, produce and deliver products

that are needed by different components of society, including employers, government organizations, and entrepreneurs. The absence of encouragement, or may I say, lack of ability amongst our student community to think on his or on her own particularly while pursuing higher education is perhaps a national malaise. Goa University, I am convinced, is better placed than all others to address this issue successfully and better than all others for reasons I just outlined. It is, therefore, our bounden duty to try and promote and inculcate such a culture that would boost and champion innovation.

7. The university needs to give high priority and focus its attention to addressing this issue. I suggest the university should strengthen its internal and external mechanisms that require a student to do independent thinking. I would like to suggest a three tier approach to this concept. At the undergraduate level, we need to strengthen the practice of preparing project reports. This is, perhaps, the first opportunity or stage a student gets to put his or her own stamp on a product of intellectual endeavour. The students could even use the internet to make these project reports accessible globally. Secondly, it is essential to make dissertation necessary for any post-graduate degree. The dissertations too should become accessible through the internet. Thirdly and very importantly, we need to strengthen doctoral programmes by using and following the University Grants Commission guidelines both in letter and spirit. Doctoral programmes, as you are well aware, are the backbone of research in any university. Goa University must, therefore, strengthen its doctoral programmes if it really wishes to make its mark as a place for research or a centre of excellence. The main campus of the university must take a lead in this direction, though the colleges will also need to build up this culture of innovation. Infact, only after we take action on the first two tiers, will we be able to achieve real success in the third tier.

8. I would, however, like to emphasize that the three initiatives that I have just outlined will require strong and constant support from the faculty for their successful implementation. I am sure that the teaching staff in our colleges and on the university's main campus will rise to the occasion to take up this challenge. You owe it to the State that has so generously supported you and your profession. You also, more importantly, owe it to the future younger generation of the State. I would like to reiterate by saying to our teaching community that if you do not deliver on this count, you will in a way mar the progress of our great country.

9. In addition to the steps that I have mentioned which I feel are required to be taken to imbibe in our graduates a culture of independent thinking and creativity, the university, I feel, would do well if it were to consider introduction of internships in its programmes. This would entail considerable co-operation from organizations that are well beyond the control and outside of the university system that is those from the private sector, the public sector and the Government.

10. Such cooperation I feel, will infact be the hallmark of a university, particularly if the university happens to be the only university of the State. I am sure, all our stake holders would agree that the university is much too important an entity for the State of Goa to be left to fend for itself. To my mind, there should be a frequent and constant interaction between the components of the university and the elements of society at large. Most critically important in this regard, is the need of a constant interaction between the University and the Industry in Goa. The most recent step taken by Goa University to keep

its syllabi on its website is a welcome step not only towards openness but also towards enlarging and enabling the scrutiny of the university by professional bodies and even members of the public. More such steps are required to be taken to make the system transparent and open to independent evaluation. This will only be beneficial for the health of the University. In the absence of such scrutiny, decision-making and functioning within a university, I feel, has the danger of turning insular and regressive. This needs to be avoided at all costs.

11. The media, I feel, has an important role to play in bringing Goan society closer to Goa University and in enlarging and broad basing the interaction between the two. I must, in this regard, compliment the local media for its extensive coverage of the Visiting Research Professorship Programme that the university launched recently. I found the coverage of the programme both informative and constructive. While the university surely needs more such coverage and reporting, what is also needed is more questioning and debate on the expectations of the State and its people from its university. These expectations, I feel, could cover a wide range of activities from educational programmes that the State expects the university to launch, to the number of seats that need to be made available in the different disciplines, to even the fees that the university should charge from its students. I sincerely hope the media will enthusiastically and objectively play this role thereby acting as a catalyst to enlarge the interaction between the people of the State and their sole university.

12. To our graduates on this most important day, I would like to cite R.W. Emerson, who said and I quote: **“Do not go where the path may lead; go instead where there is no path and leave a trail”**, unquote. Someone very succinctly said: **“The best of all things is to learn. Money can be lost or stolen, health and strength may fail, but what you have committed to your mind is yours forever”**. This is something our students must never forget.

13. Before concluding, let me quote what Tom Brokaw, the American TV anchorman, said to the graduates from a university and I quote: **“You are educated. Your certification is in your degree. You may think of it as the ticket to the good life. Let me ask you to think of an alternative. Think of it as your ticket to change the world”**, unquote. I wish the graduating class of today all the best as you take on your chosen challenge and path. May your path be blessed.

Thank You. Jai Hind.

Dr. Satish R. Shetye, Vice Chancellor

Honourable Governor of Goa and Chancellor of Goa University, Shri Bharat Vir Wanchoo, Founder and Former Chairman, Mastek Ltd., Shri. Ashank D. Desai, Registrar of Goa University, Prof. Vijayendra Kamat, Members of University bodies, Deans of Faculties, Principals, Heads of Departments, Members of Faculties from the Main Campus and from the Colleges affiliated to the University, Distinguished guests, Members of the staff of the University, students, recipients of degrees, winners of medals and prizes, parents, ladies and gentlemen.

It gives me great pleasure to welcome you all to this 26th Annual Convocation of Goa University. This convocation ceremony marks conferment of Bachelor's degrees on 7281 graduates, Master's degrees on 1053 postgraduates, and Doctor of Philosophy on 31 doctorates. In addition, we have 123 recipients of postgraduate diploma holders. Altogether 8484 become recognized today as degree and postgraduate diploma holders of Goa University. I congratulate all those who are receiving their hard earned recognition today. You make your university proud. It gives me great pleasure to note that amongst those being honoured today, are recipients of 114 awards that include 65 Gold Medals, 35 Prizes, and 15 Scholarships. These prizes, medals and scholarships have been awarded in recognition of their excellence; my special congratulations to the recipients.

The annual convocation is an occasion when a large number of stakeholders of the university drawn from higher education teaching faculty in the state, principals and management of colleges, concerned citizens, parents and students from across the state gather. The occasion is therefore apt to take stock of the past year and look ahead to the next. I would like to highlight some events that stood out during the past year.

First, the Goa State Infrastructure Development Corporation got ready the 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 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 education infrastructure in the 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. 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 of 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 Honorary 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.

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. Let me now share with you some of these.

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. It is Goa's good fortune that we have educational institutions that respond constructively to such wishes of our students. The Agnel Technical Education Complex at Verna has created opportunities with impressive success for students wanting to pursue this different path to education and employment. Agnel Technical Education Complex has now approached the university to grant recognition to opening of an institution equivalent of what is often described as a community college in the developed nations. Goa University has in the past, from time to time, examined such a possibility. Time is ripe to implement it 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 hopes to take on in the year ahead 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.

Other new academic programmes being planned include M.Sc.(Biochemistry) on the main campus and B.Sc.(International Hospitality Management) at the new campus of Vishwa Saraswati Society in Raia. During the year we hope to have Smt. Parvatibai Chowgule College of Arts & Science as the university's first Autonomous College.

The year ahead would witness the beginning of implementation of a sophisticated university management system that should ensure easy flow of and access to data that covers examinations, finance, administration, and other activities of the university.

A challenge facing of the university during the year ahead is the exercise for accreditation by the National Assessment and Accreditation Council that is due soon. The last word on how to grade institutions of higher learning has not yet been written. Nonetheless, the national policy is to encourage all institutions to get benchmarked by a national authority like the Accreditation Council. We respect this policy and assure you that we will do our best.

Before concluding, it is with great pleasure that I acknowledge the guidance, encouragement and wholehearted support that we receive 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 I outlined earlier.

I thank Honourable Chancellor for presiding over this Convocation ceremony today. I am grateful to Mr. Ashank Desai, Founder and ex-Chairman, Mastek Ltd., for accepting our invitation to be the Chief Guest today.

I thank you all for your attention and wish all the best to our graduates as they take on the world.